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OUR VIEW

AFTER 40 YEARS OF SERVICE

Co-op association: The best years are yet to come

If you've seen 40 birthdays come and go, you know what a significant milestone the "Big 4-0" can be. Perhaps you know only too well because your friends and family wouldn't let you ignore it.

But even if you celebrated the occasion privately, chances are good you found yourself glancing over your shoulder, looking back on your four decades of achievements and setbacks. It can be an unsettling moment: you're grateful that the awkward and impetuous years are behind you, yet you hope you can still find some of the adventurous spirit that drove you to pursue your youthful dreams.

See related feature, pages 6-9.

Such milestones can also help us to acknowledge the guidance we received from those who've gone before us, with a resolve to tap that wisdom in pursuing the dreams of a more mature imagination. It can also inspire us to set new priorities and to vigorously pursue them.

Moments like these also come to organizations when they have reason to assess their accomplishments and reevaluate their goals. North Carolina's statewide organization of electric cooperatives is doing just that in looking back at its first four decades of operation.

The association was formed in 1950 but it had no staff until its first office was opened in 1952. Even then, it was an unwieldy alliance of more than 30 fiercely independent co-ops — each with its own set of challenges, each directed in its own way by a board of local citizens.

This editorial was written by Dorris B. White, manager of Albemarle Electric Membership Corporation (EMC), Hertford, who was part of the rural electric program when the state's co-ops set up a statewide organization 40 years ago. A veteran of 46 years with Albemarle, she has been manager since 1983. She is a past president of the N.C. Association of Electric Cooperatives and currently serves as a director of the association and its two sister corporations.

It wasn't easy for the young co-ops of the early 1950s. They faced constant attacks from the investor-owned power companies. Those companies naturally did not want to see the upstart, nonprofit co-ops grow stronger and expand into the more densely settled areas outside the cities, where service was up for grabs.

Against this background, the leaders of the co-ops had the foresight to band together and form collective associations designed to promote the mission of rural electrification among political leaders and in their own communities. They also formed regional associations to buy electric power at wholesale prices, and to build transmission and distribution facilities, on behalf of their members.

Dorris B. White

The early associations gave the co ops the strength to negotiate as a collective force and the advantage of pooled resources to finance projects for the good of all: lobbying and public relations efforts, group purchasing and safety training. The alliances als offered a forum where co-op officials could exchange information, discuss policies and map strategies.

The statewide organization contin ues those traditions today, but it has matured to become an equal partner and able-bodied player in the ever-changing utility business. This is due in large measure to the fortitude and vision of the co-op officials who formed the organization 40 years ago.

They faced critical issues in those days, and the tasks of organizing, ed ucating and negotiating were formidable. And the early organizers approached their work cautiously, indeed conservatively. Nearly 10 years after it began functioning as a statewide organization, the association finally decided to rent an office in Raleigh and hire a manager.

The organization today is three separate corporations that operate under a single management structu with 135 employees. It provides an

ay of services to help the state's 28
ICs do a better job of providing
ver to their consumer-members at
lowest possible cost.

Yet it continues to operate with the
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e marketplace of the 1990s. But,
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tion on its original mission of ser-
e, it has been an almost invisible
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alf of the EMCs.

Plans are now in place to change
t by adopting a more visible
tewide identity and a single all-
rpose name for the association.
e name: Carolina Electric Cooper-

he statewide organizatwn has been almost an invisible force working behind the scenes on behalf of the EMCs. Plans are ow in place to change that by dopting a more visible identity and a new name: Carolina Electric Cooperatives.

ves. You'll hear more about this
v name in the months ahead
ough *Carolina Country* and local
IC publications.

believe this new name symbolizes
efforts to vigorously pursue new
orities for the 1990s and beyond. I
eve it also is emblematic of the
anization's commitment to move
vard with a youthful spirit and
ure imagination.

'm also convinced that at age 40,
organization's best years are yet
ome.

A Glimpse of "Light Living"

"Light Living," the new cookbook published by the Women's Committee of North Carolina's rural electric cooperatives, is still available. The material in this cookbook was provided by Jean Perry Spodnik and David P. Cogan, M.D., co-authors of the "35-plus Good Health Guide for Women."

The 192-page softcover cookbook includes more than 300 recipes contributed by members of local co-op women's committees across the state. Also included in this publication are tips for dieting, exercises and information on nutrition.

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FEATURE

ORGANIZED 40 YEARS AGO

Co-ops found strength in unity through the statewide association

BY MICHAEL E.C. GERY
ASSOCIATE EDITOR

It was a time when private utilities called the rural electric cooperatives every derogatory name in the book.

North Carolina's electric co-ops had been around only a dozen years or so, but the well-established, profit-oriented private utilities saw them as a major threat.

See related editorial, pages 4-5

"They tried to paint the co-op program as something sinister, a little worse than socialist," remembers Heyward H. McKinney, who was manager of Pee Dee Electric Membership Corporation (EMC), Wadesboro, at the time. "They would not accept the fact that nonprofit co-op service organizations are just as much a part of our free enterprise system as private enterprise and partnerships."

Another veteran of those tense years added: "The private power companies looked at us as being nothing more than a flour mill on the creek."

The comment came from Cecil E. Viverette, who began as general manager of Blue Ridge Electric Membership Corporation, Lenoir, in 1948.

"To them, we were the devil in the flesh! They called us a bunch of socialists."

Viverette was well acquainted with the animosity between the two utility programs. As a young electrical engineer just out of North Carolina State College in Raleigh, he worked for Carolina Power and Light Company until 1940, when he became superintendent of Randolph EMC in Asheboro.

His supervisors at the investor-owned utility (IOU) nearly shouted him out of the room when he announced his plans.

"I had never heard such cussing in my life!" Viverette remembers. "They put down the co-op program so hard. And the more they put it down, the more I wanted to work for it."

As the tensions mounted between the IOUs and the fledgling co-ops, the EMC managers in North Carolina realized they needed some political clout.

In December 1950, 12 of the state's 34 electric co-ops incorporated a statewide association and accepted the name Tarheel Electric Membership Association (TEMA).

The first president was E.R. Crater, a preacher who was a director of Davie EMC, Mocksville, which is now part of Crescent EMC, Statesville. After opening the February board meeting with a prayer, Crater described TEMA's purpose: "to unite the cooperatives in North Carolina into an organization that would have the power and financial backing to cope with the attacks being made upon the cooperatives by the power companies."

Incorporation papers, bylaws and official procedures of the statewide association had been assembled in late 1950 by a young William T. "Bill" Crisp III, an Asheboro attorney who had worked for two years on behalf of Randolph EMC. Crisp's penchant for orderliness, along with the vision and prodding of Ashe County Gwyn B. Price, chairman of the 15-year-old North Carolina Rural Electrification Authority, led to the creation of an official association.

Crisp and Price, who both died earlier this year, would continue to serve as leaders of the state's rural electric program for decades to come.

TRACING THE ROOTS

A less formal statewide group had been functioning for nearly seven years before TEMA was organized. It, too, had evolved as the co-ops sought ways to cope with the constant attacks they faced. They also needed a united effort to obtain adequate insurance at reasonable rates.

As Cecil Viverette recalls, "We were rated a very high risk, because

we were so new. There were only a few co-ops then. Insurance companies would set arbitrary rates on us."

So in 1943, a handful of co-op managers formed an advisory committee for a Job Safety and Training Program to participate in training promoted by the Rural Electrification Administration (REA) in Washington. The REA had begun administering loans for rural electrification projects in 1935 and was concerned about accidents on construction projects.

Banquet scene at the January 1950 meeting of eastern North Carolina EMC directors held in Wilson.

The safety committee procured financial aid from the state Department of Trade and Industrial Education and hired a full-time supervisor in 1945. By 1949, when more co-ops had joined the effort, two supervisors were on the job, one serving the eastern region from a base in Burgaw and another serving the western region from Boone. The program operated with a budget of $12,000.

Its success led co-op officials to discuss the idea of joining forces to address other matters of mutual concern, including public education and politics.

As Heyward McKinney puts it: "The program was born in the halls of Congress, and we always felt it would die there as well. Because of the tremendous pressure from the investor-owned utilities, we needed every friend we could possibly get. The very life and existence of the rural electric program was in jeopardy. We needed all the political and public relations clout we could muster to explain our cause."

THE CAROLINA FARMER MAGAZINE

After 1945, the managers called the organization the North Carolina Rural Electric Cooperatives Association and began meeting quarterly. They formed an Education and Public Relations Committee which included Viverette as chairman and McKinney as a member.

The committee agreed regular newsletters were needed to help the EMCs inform their consumer-members about co-op activities and operations—something they were obligated to do as cooperative enterprises.

A number of the co-ops soon had their own newsletters and many of them were produced at the Greensboro publishing facility of *The Carolina Farmer*, a monthly magazine that was established in 1946.

J.E. "Nick" Nicholson, the magazine's founder/editor, soon realized the sizable readership represented by EMC households, and offered to make his publication the "official organ" of the North Carolina association of EMCs.

Viverette's committee accepted the offer in late 1948. In the January 1949 edition of the magazine, Nicholson ceremoniously trumpeted "the dawn of a new era" for the pub-

continued on page 9

continued from page 7

lication. The issue's pages were devoted almost entirely to articles about rural electrification. At that time, 20,000 of the state's 100,000 co-op consumer-members began receiving the magazine.

The co-op officials welcomed the relationship with *The Carolina Farmer* not only for its dedication to rural development, but also because of Nicholson's ties to key political luminaries. They included W. Kerr Scott, who had risen from state agriculture secretary to become governor in 1948, and Harry B. Caldwell, master of the N.C. State Grange.

A GENERATING AND TRANSMISSION COOPERATIVE

The state's electric co-ops reached another milestone in February 1949, when they formed their first collective corporation. Known as the Eastern North Carolina Electric Membership Corporation, it was a generating and transmission cooperative — at least on paper. Its members included several EMCs in the east. J.L. Shearon, manager of Wake EMC, Wake Forest, was elected president.

The corporation was set up to buy wholesale electricity and build facilities. Its first act was to apply to the federal government for an allocation of 20,000 kilowatts of hydroelectric power from the soon-to-be-completed Buggs Island Dam on the Roanoke River in Virginia.

Several of the eastern co-ops previously had retained engineers L.E. Wooten and B.O. Vannort, who were at the first meeting of the new corporation to discuss their work on an application for an REA loan. The funds would be used to build transmission lines and a 50,000-kilowatt generating plant. The plan had strong support but the facilities were never built.

The Buggs Island Dam, a federal installation, was a flash point in the utility battle of the period. The IOUs argued vehemently that they alone should receive the power and in turn sell it to co-ops and municipal utilities.

ASSOCIATION OFFERS NEW SERVICES

Meanwhile, the as-yet-unincorporated state association had expanded its activities. It recruited member co-ops, touted the benefits of electricity and arranged training sessions for directors, bookkeepers and line crews. Nicholson kept *The Carolina Farmer* readers informed of these activities, but sold his Greensboro printing business and in September 1949 set up a new office on the fourth floor of the Masonic Temple Building in downtown Raleigh. Its location at the corner of South Wilmington and Martin streets, put the co-op association's first government relations liaison only a few blocks from the capitol and crucial state agencies.

The State Office should serve as the official medium whereby the Electric Membership Corporations of North Carolina may unify and concentrate their efforts to secure and preserve the basic good will of the public in general and government in particular, primarily by promoting on their part a basic good understanding of the background, problems, purposes, accomplishments and fundamental principles underlying the nature and practices of rural electric cooperatives.

From the "Primary Objectives" Adopted August 1952

Mounting pressure to demolish rural co-ops, however, led associatio president Robert S. Burrus, manage of Surry-Yadkin EMC, Dobson, to form a committee to strengthen the organization. Chaired by J.C. Jones, manager of Davie EMC, Mocksville, the committee included Viverette an McKinney. The group presented its recommendations for an incorporate association at a memorable meeting at Fontana Dam in August 1950.

By December, Bill Crisp had completed the formal papers, and the Tarheel Electric Membership Corporation was finally and officially open for business. TEMA promptly assumed all assets and liabilities of the North Carolina Rural Electric Cooperatives Association.

A CENTRAL OFFICE

In 1951, the power companies' op position to rural electrification had escalated to an all-time high, and their lobbyists had taken it into the halls of Congress and the state capitol. Leaders of the new TEMA grou felt the co-ops must reinforce their efforts in the political arena with ne projects to build public confidence i the program. They rallied their forc to bring 10 more EMCs into the fol by summer, increasing the member ship to 29.

TEMA moved quickly to mount a exhibit for the State Fair and coord nated beauty pageants for the national "Miss REA" competition.

Meanwhile, Eastern North Caroli na EMC had negotiated contracts fo wholesale power, gaining rates of eight mills (eight-tenths of a cent) per kilowatt hour from Tidewater Power Company, 7.5 mills from Carolina Power and Light, and

7.5 mills from Virginia Electric and Power Company. The contract included a cancellation clause that would allow the corporation to buy power from Buggs Island if negotiations were successful.

At the November 1951 TEMA meeting at the Sir Walter Hotel in Raleigh, the association considered the merits of buying *The Carolina Farmer* outright. By then, it was being mailed to consumer-members of five co-ops at a cost of 35 cents per member per year. Instead, the group agreed to lease the publishing operation and try to buy it by March 1952. Editor Nicholson accepted the arrangement and moved on to a job as manager of an electric co-op in Pennsylvania.

In January 1952, TEMA decided to establish a central office in Raleigh and formed a committee to seek an executive manager. In February, $4,555 was set aside to purchase *The Carolina Farmer.*

The following May, the board wanted to hire Harry Caldwell of the State Grange as executive manager "to help in any legislative fight that might occur" affecting rural electrification. Unable to get Caldwell, TEMA in July chose Bill Crisp for the post.

Crisp moved into the association's first office in August 1952. He shared space with the acting magazine editor, Jerry Anderson, who was on loan from French Broad EMC, Marshall. He had come to Raleigh in June to take the reigns of the publication on an interim basis.

Anderson and Crisp occupied a 3-room suite on the ninth floor of the Commercial Building at Fayetteville Street and Hargett Street, a block north of the magazine's previous office. Later known as the First Citizens Bank and Trust Building, it was razed recently to make way for a parking lot.

At its August meeting in Atlantic Beach, the board accepted Crisp's 9-page statement of objectives and policies for the statewide office.

Forty years later, many of those policies and objectives remain essentially intact.

Learning all about the light bulb in the 1940s.

SOLIDIFYING SUCCESS

In February 1958, the eastern EMCs' generating and transmission corporation merged with the counterpart agency for the western co-ops. The president of the new North Carolina Electric Membership Corporation was Alton Wall, who had succeeded Cecil Viverette as manager of Randolph EMC in 1948.

The co-ops' wholesale power costs had dropped 57 percent over the past 20 years and Wall attributed the decline to the strength of the statewide organization. He called for the co-ops to lessen their dependency on Carolina Power and Light and to make plans for their own statewide generating and transmission system.

Leaders of the state's EMCs, both past and present, agree that the statewide organization has succeeded in providing an efficient, cost-effective mechanism for achieving the co-ops' common goals. Its teamwork approach defused many of the program's opponents and helped bring legislative successes in Washington and Raleigh.

"It eventually led to the IOUs more or less giving up in their efforts to kill the program," says Heyward McKinney. "They finally decided the program was here to stay. We had made enough of an impact and done a job the power companies were unwilling to do. We were recognized as a program of tremendous benefit to rural communities.

"For the power companies to continue badgering us wasn't working. They eventually accepted the division of territory on an official basis, which was a key to the success of our program."

McKinney says the statewide organization must continue to function much as it has in the past while also addressing important new agendas:

"There is little understanding of cooperatives among their members. People today will never know what it was like to live without electric power. They accept it as a way of life.

"The association now faces a tremendous challenge in informing the members about the co-ops' mission of service. At the same time it must fend off the competitive forces that are just as interested in beating up on this program today as they were 40 years ago!"

FEATURE

1992 RURAL ELECTRIC YOUTH TOUR

North Carolina EMCs send 47 teenagers to Washington

When they first met in Raleigh on the afternoon of June 13, 47 North Carolina teenagers were shy, anxious, and a little awkward about introducing themselves to one another.

By that evening, though, they knew they were in the presence of people who could become longtime friends.

The bonds grew stronger during the next six days as they participated in the 1992 Rural Electric Youth Tour to Washington.

When their bus returned to Raleigh June 20, the young people were sad to be separated. But all admitted they were going home much richer than when they left the previous week.

The 47 youths will be high school seniors this fall. When they resume school, they will bring lessons they learned during one week in June — lessons of social and economic cooperation; of the nation's history, government and resources; of North Carolina's development and importance to the nation.

They were sponsored on the Washington tour by the Electric Membership Corporations in their home towns.

On the evening they first gathered in Raleigh, Dusty Rhodes, manager of member and public relations at Crescent EMC, Statesville, taught them the fundamentals of business cooperatives.

That same evening the youths formed their own cooperative — a Soda Pop Co-op — as a means of procuring and distributing soft drinks during the trip. They elected directors and officers, who hired a manager. And they set policies and a 35-cent price for canned drinks that otherwise would have cost 75 cents to $1 each in the Washington area. Even at the co-op price, members earned two cents per can in capital credits.

The North Carolina Youth Tour delegation is the only one in the nation to organize a co-op, and it became a matter of pride when the Tar Heels met any of the 700 Youth Tour members from other states who were in Washington the same week.

"These young people are the co-op customers and the co-op leaders of the future," said Lorrie Constantinos tour coordinator and director of member services for the Raleigh-based EMC association. "They are the top achievers in their schools and in their communities. Soon they will

Members and advisors of the North Carolina delegation, 1992 Rural Electric Youth Tour to Washington.

be the business people and government leaders in their co-op areas. The more they understand and appreciate co-ops, the better it is for the co-ops and their communities."

The Youth Tourists themselves said they learned about co-ops and a lot more.

"I learned a lot about people and Washington," said Melissa Staker of Lexington, who was one of three representatives of Randolph EMC, Asheboro. "It is a trip I will never forget. Lasting friendships and memories were made."

Said Jennifer Lupton of Hobucken, one of two representatives of Tideland EMC, Pantego: "It helped me to understand how important history is. It gave me a chance to compare school and school activities to others in the same state."

The group stayed at the Sheraton National hotel, which also accommodated their counterparts from throughout the country. Assisting Constantinos were Member Services representatives Lois Goodwin of the statewide organization; Matt Vernon of Wake EMC, Wake Forest; and Dusty Rhodes with his wife, Rita, of Statesville.

The group followed an impressive itinerary: Mount Vernon, the National Mall monuments at night, Arlington National Cemetery, the Smithsonian museums, the Capitol and offices of Tarheel congressmen, Washington Cathedral, Iwo Jima Memorial at sunset, the National Zoo, and dinner and a show at the Kennedy Center.

In addition to presentations by the National Rural Electric Cooperatives Association (NRECA), a boat tour of the Potomac and several organized meals, the participants had time for trips of their own to museums, shops, and pizza counters.

"Socially this trip taught me to be a more outgoing person," said April Horton of Lenior, one of five youths from Blue Ridge EMC, Lenior. "And educationally this trip taught me more about Washington than I ever learned in school."

And Susan Carter of Route 1, Fayetteville, one of two tourists sponsored by South River EMC, Dunn, put it this way: "The Youth Tour was the best week of my entire life! I met friends that I will always keep in touch with, and I learned about life. The sightseeing taught me a lot about our country, and it gave me a renewed sense of patriotism. I will carry memories of this trip with me forever."

YOUTH TOUR LEADERS

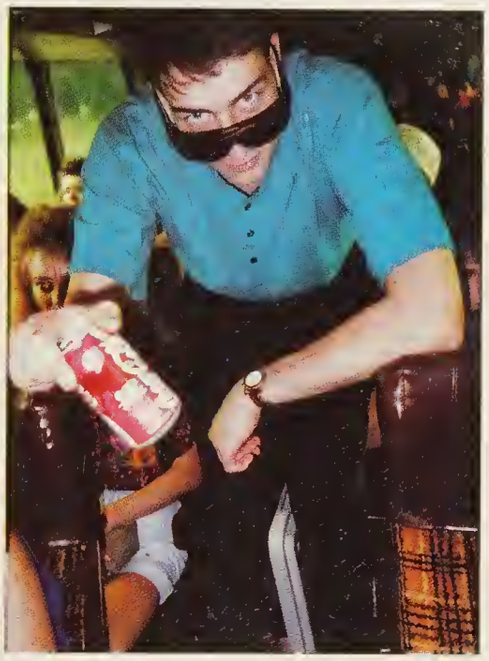
Several of the students on the 1992 Rural Electric Youth Tour assumed leadership responsibilities during the sojourn.

Kris Ward of Clarkton (Four County EMC, Burgaw) was elected North Carolina's representative on the national co-op association's Youth Consulting Board. Among other responsibilities, the board advises the association on youth activities, will attend the 1993 annual meeting in Dallas, and offer advice on next year's Youth Tour. Each member receives a $750 scholarship as well.

Ward, who attends Bladenboro High School, also was chosen bus captain for the tour, along with George Wyckoff of Frisco (Cape Hatteras EMC, Buxton).

Mandy Pope of Route 1, Stony Point (Crescent EMC), was elected alternate to the Youth Consulting Board, entitling her to represent North Carolina in the tour's national Quiz Bowl. The West Iredell High School student also earned a seat at the July conference of the National Institute of Cooperative Education in Denver.

Elected to the Soda Pop Co-op board of directors were president, Ronda Malpass of Route 2, Seven Springs (Tri-County EMC, Dudley); vice president, Amber Young of Route 4, Mount Olive (Tri-County EMC); Mandy Pope of Route 1, Stony Point (Crescent EMC); Laura Rogers of Newport (Carteret-Craven EMC, Morehead City); and Kathy Wood of Spring Lake (South River EMC).



Riley Casey of Iron Station was assistant manager of the group's Soda Pop Co-op.

Asia McNeill of Route 1, Red Springs (Lumbee River EMC, Red Springs), was selected to handle major responsibility as manager of the Soda Pop Co-op. Her assistant, Wendy Strother of Route 2, Youngsville (Wake EMC), fell ill in the early going and yielded to Riley Casey of Route 1, Iron Station (Crescent EMC).

For Some Lumbee River EM
The Goose That's Abou

He's got skinny legs, a sagging neck, and an altogether undeniable case of the homelies.

But if you ask farmers in Roberson, Hoke, or Scotland county what they think, they'll likely tell you he's the most beautiful creature on earth.

Not long ago, the folks at the Lumbee Regional Development Association (LRDA) went to their local EMC with a plan.

With a new turkey processing plant opening in the area, their idea was to create a model turkey farm that local farmers could visit to learn all about how much equipment, time, and money would be necessary to start their own growing businesses.

armers, You're Looking At o Lay The Golden Egg.

The catch of course was money. And that's where the Lumbee River EMC came in. Through the Rural Electrification Association, they helped the LRDA secure a no-interest $75,000 loan.

Today, the model turkey farm is up and running and there are at least 12 local farmers ready to begin their own operations as soon as they're needed.

The farmers will earn much-needed income. Local stores will benefit from the extra spending. And the entire three-county area will have the beginnings of a thriving new industry.

And that, if you will pardon the pun, is what you call "talkin' turkey."

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Photography: Salstrand Studio, Raleigh, NC

FEATURE

The Butterfly Lady of Mineral Springs

TEXT AND PHOTOS BY
MICHAEL E.C. GERY
ASSOCIATE EDITOR

Butterflies are free — and delicate and beautiful. I've always understood that.

Now, thanks to a remarkable Union County woman, I also understand how amazing they are.

Remember the school lesson about caterpillars turning into butterflies? I never grasped the full meaning of that transformation. All I comprehended was that butterflies come from caterpillars.

Now, after meeting Marsha Hancock of Mineral Springs, I know how much more there is to the caterpillar-becomes-a-butterfly story. After meeting Marsha Hancock, I will look at butterflies in an entirely new light.

Mrs. Hancock admits that as recently as 1985, she knew little more about that story than I did. That year, she received a rather unusual gift from her aunt, a naturalist: two caterpillars and some milkweed. The caterpillars followed the story's age-old script and became Monarch butterflies, those ephemeral orange-and-black wisps that flutter from leaf to leaf in summer.

Marsha Hancock holds a Monarch butterfly she uses for display. The dogwood twig on her right hosts two week-old chrysalises.

A year later, Marsha looked out the kitchen window while washing dishes and saw a Monarch on the milkweed. When she walked outside to have a closer look, she saw 11 tiny white dots under the milkweed leaves. They were butterfly eggs. She brought the milkweed indoors, carefully keeping the eggs intact.

As the mother of a 6-year-old boy, Marsha Hancock was home enough during the day to observe the butterfly eggs. She watched every day, then many times a day, as the eggs became tiny white caterpillars that ravenously ate milkweed. She had to bring in more milkweed to keep up with their appetites.

She marveled at the caterpillars' yellow, white and black stripes and their single-mindedness in eating plain old milkweed, almost non-stop. She watched a caterpillar grow, shed its skin, grow and shed its skin again and again until it crawled to a stem, and spun a milky white dab of silk where it attached itself upside down. Then, as she watched, the caterpillar struggled out of its skin again and almost violently balled itself into a hanging globule the size of a grape. She recognized the globule as the chrysalis.

By this time, Marsha Hancock was mesmerized, or "hooked," as she describes it. Since that 1986 experience she has steadfastly tended milkweed plants each year to attract Monarch butterflies into her gardens to lay eggs and make more butterflies.

Her child-like sense of wonder about the stages of metamorphosis is contagious. She usually hooks a few people whenever she presents her informative, illustrated talk on milkweed butterflies to schoolchildren, civic groups and others in the Union County area.

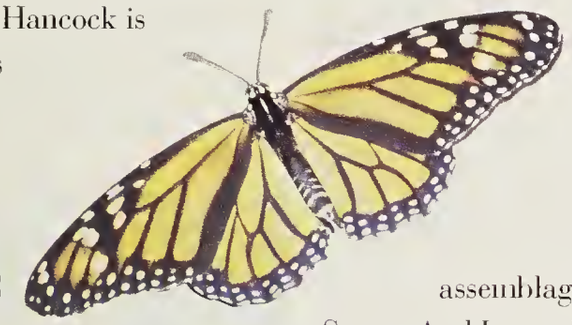
Marsha Hancock's generosity is as great as her love of butterflies. When editor Luanne Sherron, of the Union Electric Membership Corporation, Monroe, interviewed Mrs. Hancock for a member profile in the EMC's "Cooperative Review" newsletter last spring, Luanne left the Hancock homestead with her own milkweed, chrysalis and caterpillar.

After my recent interview with Mrs. Hancock, I left with a similar prize.

Add two editors to her list of newly recruited butterfly fans.

After the co-op newsletter article was published, the fans soon included a number of Union EMC consumer-members. Others joined the ranks after the piece was reprinted in Charlotte's "Southern Lifestyle" magazine.

Now, Marsha Hancock is known locally as "The Butterfly Lady." She received so many inquiries that Union EMC offered to type and photocopy her written guidelines for breeding and caring for the Monarch butterfly.



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Even more catching than Marsha Hancock's enthusiasm is the almost spiritual awakening that comes with watching the transformation and contemplating the life of a Monarch butterfly.

I drove away from Mineral Springs in mid-June with my own pet Monarch caterpillar on the passenger seat. Mrs. Hancock had given me an aluminum-foil baking pan which contained sprigs of milkweed and dogwood steadied by a florist's vial stuck in clay. A lone one-inch caterpillar, about one week old, chomped merrily on a milkweed leaf. And dangling from a dogwood twig was a dazzling chrysalis, held in place for safe passage by a tiny tissue sling Mrs. Hancock had made. As a bonus, she included another chrysalis, which she said contained a black Swallowtail butterfly.

As I drove home, I glanced at the caterpillar from time to time to make sure it hadn't crept away or become car sick. It just chewed the milkweed. I found myself actually talking to it, asking if there was too much breeze or too much noise. It just merrily ate milkweed for three hours, and by the time I reached home, it had consumed a leaf the size of a credit card and had moved onto another.

At home, I had to explain the odd-looking assemblage to my wife, Susan. And I was able to make sense of it because of what I'd learned from Mrs. Hancock.

I told Susan that the caterpillar had been about the size of a fingernail trimming only a week before. It eats continuously, I said, increasing its weight about 2,500 times in two weeks and growing to about two inches in length. A 7-pound baby would weigh 17,500 pounds if it were to grow at that rate during its first two weeks of life, I pointed out, quoting my expert teacher.

The caterpillar excretes from its mouth black pellets that smell like chlorophyll-scented cat litter. The caterpillar (also called the larva) molts its skin five times to adjust for its growth. The fifth and final time it sloughs off its skin while hanging from the dab of silk it deposits on a twig, or a windowsill, or perhaps on the edge of a tablecloth, as was the case in Marsha Hancock's dining room.

One evening, as Susan was watching our pet caterpillar, she called to me, "Come here, quick! It's shaking off its skin! You have to hurry!"

The caterpillar was swaying on a milkweed stem as though riding in one of those cocoon-shaped wicker porch swings, pushed by an invisible hand. We watched speechlessly as it shrugged out of its skin, then compressed itself into a chrysalis. The entire transformation took only a couple of minutes.

An hour later the chrysalis resembled the other one Marsha Hancock had given me. We had two chrysalises hanging on twigs. They looked like miniature jade plums, their skins etched in gold.

The Hancock dining room at this time of year usually has about a dozen of these little bejeweled trees. And each brilliantly colored chrysalis becomes a Monarch butterfly.

Mrs. Hancock called me a week after I met her to ask how things were going.

I told her she was exactly right about the timing of the chrysalis formation and about how excited we had become. I must have sounded like a first-time expectant father talking to a sister who has children.

"When will the butterfly come out?" I asked.

"I thought you might have seen it this morning," she replied. "Can you see anything in the chrysalis yet?"

"No. But it was dark green when I left for work this morning."

"Well, maybe tomorrow morning," she said. "They usually emerge very early in the morning, just before light, probably so a predator won't get them as soon as they come out."

I regretted I had not packed the whole set-up in the car and brought it to work. If you don't watch it often, you miss plenty of action.

As soon as I got home that evening,

continued on page 16

continued from page 15

I checked the chrysalis, as both Susan and I had been doing for the past seven days. This time, my heart thumped in my chest. Instead of the chrysalis, a full-size Monarch butterfly was clinging to the twig where the first jade-colored chrysalis had hung.

Stunned, I thought to myself, "What should I do now with this brand new butterfly?" I hadn't asked Marsha Hancock. She hadn't told me.

I knew I would set her free. I knew it *was* a female. She lacked the two black spots on her lower wings which identify the male scent glands.

But I wanted Susan to see her, and Susan wouldn't be home for two hours. And I wanted to shoot photographs of it outside the house in natural light.

I called Susan. She was crestfallen to have missed the emergence of the butterfly.

"You have to let her go," she said.

I said I would take the twig outside for photos, and if the Monarch remained on it, I'd bring her back inside for Susan to see.

As I picked up the twig, the Monarch immediately flitted toward the biggest and closest window. As she alighted on the sill, I gasped at what I saw.

The Monarch had landed next to the black Swallowtail. There they were, together at the window, two unbelievably beautiful butterflies, silent and delicate as Japanese rice paper art.

I opened the window, and they flew out, not in a hurry, but in the nonchalant way butterflies play on air. The Swallowtail settled on a maple leaf. The Monarch alighted on the deck railing, long enough to model for pictures, before she too floated into the sunset.

Now we're watching the second chrysalis, which only two weeks ago was a green-and-yellow caterpillar riding shotgun in my car and eating milkweed.

Marsha Hancock says the chrysalis turns almost transparent, and you can see the compacted butterfly folded inside. Its legs will gently crack the chrysalis, and it emerges crumpled with small wings and a bulging abdomen. The abdomen contains fluid which the butterfly pumps into its wing veins until they spread to full size.

I don't want to miss the show when that one turns into a butterfly. I'll set my clock for any hour or stay up all night, if necessary, to be sure I get a front-row seat.

Marsha Hancock will gladly send you a description of how she raises Pink Swamp Milkweed and attracts migrant Monarchs. However, she prefers to restrict her in-person presentations to the Union County area. Send a business-size, No. 10 envelope stamped and self-addressed, to: Butterfly Lady; P.O. Box 98, Mineral Springs, N.C. 28108.

THE SHORT LIFE AND LONG FLIGHT OF THE MONARCH

The Monarch butterflies you see in North Carolina in late spring and summer are native Tar Heels. If you have milkweed, you likely will have Monarchs. They live only about two weeks after leaving the chrysalis, which is time enough to mate and lay eggs under milkweed leaves.

In the declining daylight of late summer, however, females do not develop productive ovaries. This last generation flies south for the winter — to Mexico, of all places.

Migrating south in the autumn, Monarchs fly 10 to 20 miles per hour, as high as two miles, and often log as much as 80 miles in a day. And, they fly only during daylight. Most head for a 20-acre area of the Sierra Madre mountains north of Mexico City, a wintering ground discovered in 1975. Zoologist Fred A. Urquhart saw millions there, lounging in their semi-dormant contentment. Some, which he had tagged in Canada, had flown more than 1,800 miles.

Mexico is the ancestral home of the milkweed species. Dr. Urquhart wonders if Monarchs originated there, too, and are "straying, perhaps over eras of a warming trend, farther and ever farther north."

Science has not explained how Monarchs know to fly great distances to the Mexico wintering ground. But the altitude and atmospheric conditions in Mexico are perfect for the tired butterflies to remain inactive and reserve their energy.

They burn their energy in spring, when suddenly the light is right and they leave en masse for parts north, breeding along the way. Most males do not survive the trip.

As they locate fresh milkweed, females laden with eggs alight, then die. And the amazing metamorphosis begins. Their co-travelers, not yet ready to lay eggs, continue flying north. They spread across most of the United States.

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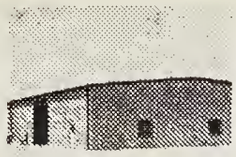

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COVER: GUILFORD COUNTY ARTIST'S FIRST LIMITED EDITION PRINT

"Moontide" is the title of our cover illustration, an original painting by Stephen Bliss of Guilford County.

A Michigan native who has made his home in North Carolina for the past 20 years, Bliss lives with his wife in the community of Pleasant Garden. He is an investment advisor with Wachovia Bank in Greensboro.

Bliss, who has no formal training as an artist, said he is an avid outdoorsman who often paints the scenes that have touched him on fishing trips and other excursions.

"When I do a painting, I want to recreate a scene I've experienced and I try to convey in that image the feelings I had about the scene."

"Moontide" features a spot he visited on the North Carolina coast.

The painting has been reproduced as the artist's first limited edition print. The signed-and-numbered print features an image size of 19½ inches by 25 inches. Copies are available for $85 each plus 6 percent sales tax and $10 for shipping and handling.

Ten artist's proofs and 40 remarqued proofs are also available, as is the original oil painting.

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SETTING EFFICIENCY STANDARDS IN MANUFACTURED HOMES

If you want a glimpse of how things are going in a test of new state-of-the-art manufactured homes, just ask volunteers Gloria and Lee McKenzie of Troy.

"We can just turn on the heat and sit back and relax," said Lee McKenzie.

The couple moved into the specially-designed home last December, through an arrangement with Randolph Electric Membership Corporation (EMC), Asheboro. It's their first home and, so far, it has lived up to their expectations.

The McKenzies have a right to feel protected against high heating and cooling costs, said David Rowe, manager of member and public relations at Randolph EMC.

He said the home's energy-efficient features can save them 40 to 60 percent on their monthly electric bills.

"This project is designed to show that if you follow certain insulation guidelines you can live in a manufactured home and do so affordably," he added.

The savings are expected to mount up quickly because standard manufactured homes include less energy efficient features. In many cases, the homeowner's electric bills exceed the monthly mortgage payment.

Sponsors of the Model Manufactured Housing Project hope to change that. The project's primary purpose is to set an efficiency guideline acceptable to both the manufacturers and the electric utilities in North Carolina. Another goal is to help educate consumers about the savings they can realize when these standards are used.

The McKenzie home is one of six demonstration units across the state that are being monitored for energy-efficiency and comfort as part of the project. A second in the Randolph EMC service area is in Carthage. In addition, Four County EMC, Burgaw and South River EMC, Dunn, will each serve two units.

One of the Four County homes outside Burgaw is occupied by Alber and Letha Joye, who were eager volunteers. They moved from Wilmington to take advantage of the home's special features because they're looking towards retirement in a few year

"We wanted a low-cost home and one that would protect us from high heating and cooling bills. The co-op assures us that our new manufactured home will be affordable and comfortable," Albert said.

Although the Joye home cost $1,500 more than the same model without the energy savers, projection show that the couple will recover tha investment through energy savings i about seven years.

Edward E. Brown Jr., Four Count EMC's general manager, said, "The Joyes are our first manufactured housing owners who are assured of stable energy costs. This experiment should prove that the dollars spent up front for better insulation and oth er features will return the cost to the owner in only a few years."

Marvin O. Marshall, South River EMC's executive vice president and general manager, said the project wi benefit consumers, the manufacture housing industry and the utilities.

Addressing a ribbon-cutting ceremony at the South River demonstration site near Fayetteville, he said, "The goal of this cooperative researc project is to develop energy efficienc guidelines for manufactured homes that will lower energy costs for con-

sumers and reduce demand for electricity for the participating rural electric systems."

When the study is completed, project coordinators will analyze data that compares the energy consumption of the demonstration models with that of standard manufactured homes. The research findings will be shared with the manufactured housing industry and installers of energy-related components.

The resulting guidelines could soon be recommended for use across North Carolina as well as in the Southeast and Midwest.

The project is jointly funded by Carolina Electric Cooperatives, the National Rural Electric Cooperative Association and the North Carolina Alternative Energy Corporation.

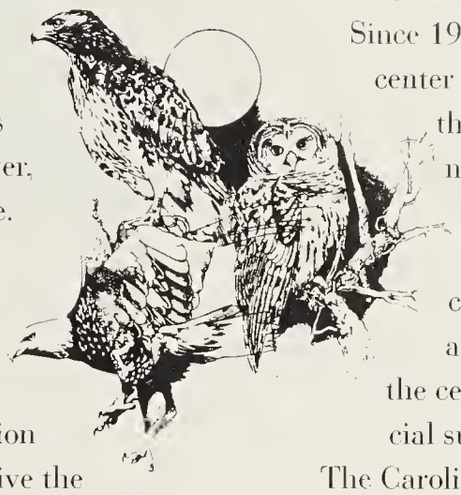
ADOPT A BIRD OF PREY AT CAROLINA RAPTOR CENTER

The Carolina Raptor Center, the largest organization in the Carolinas dedicated to the care of sick, injured or orphaned raptors, needs your help.

The nonprofit center, located in Latta Plantation Park north of Charlotte, has established the Adopt-A-Bird program that encourages citizens to help the center in its efforts to care for birds of prey.

Birds that are not able to return to the wild because of injuries or other circumstances spend the rest of their lives at the center and are used in educational and breeding programs. When you participate in Adopt-A-Bird, your fee is used to care for your" bird and others that are being treated at the center.

You may choose the species of bird you wish to sponsor. Adopt-A-Bird donors receive a color photo of the bird, the life history of the bird and a parchment adoption certificate suitable for framing. The adoptions are for one year, and during that time you will receive the Raptor Center's bimonthly newsletter, The Raptor Update.



You can also become a member of the Raptor Center with a donation of $25. This donation entitles you to receive the newsletter, a 10 percent discount on gift shop purchases and a free yearly catalog from the Eagle's Landing gift shop.

The Raptor Center has a history of steady growth since its beginnings in the basement of the biology building on the campus of the University of North Carolina at Charlotte. Now the center is located on 57 acres at Latta Plantation Park.

Since 1980, volunteers at the center have cared for more than 3,000 raptors. Often more than 200 birds are cared for at a time. With the ever-rising cost of food, medications and medical equipment, the center always needs financial support.

The Carolina Raptor Center is open from 10 a.m. to 5 p.m. Tuesday through Sunday. Admission is free, but donations are requested.

If you would like more information, contact Ila Nofziger at P.O. Box 16443, Charlotte, N.C. 28297. Phone: (704) 875-6521.

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Grasscycling can keep lawns healthy

You may know that many landfills are near or already at capacity. But you may not know that yard waste accounts for about 20 percent of the solid waste in landfills today, according to the North Carolina Cooperative Extension Service.

Beginning Jan. 1, 1993, a new state law will make it illegal to dump yard waste into North Carolina's landfills.

When you consider that 50 percent of all yard waste is grass clippings, and that the clippings are 75 to 85 percent water, you can understand that there must be an ecologically sound way to dispose of them.

Art Bruneau, crop science specialist at North Carolina State University, has a suggestion: leave grass clippings on the lawn. They're good for a lawn.

The practice is called "grasscycling." It is endorsed by the Extension Service; the N.C. Department of Environment, Health and Natural Resources; and the Turfgrass Council of North Carolina.

Grasscycling is a means of using grass clippings as a natural source of lawn fertilizer. Leaving grass clippings on your lawn can provide up to 25 percent of a lawn's yearly fertilizer needs — and reduce the time and money required for fertilizing and bagging, according to the Extension Service.

And, your lawn will stay green and healthy when clippings are left on it.

Bruneau says the main misconception about grass clippings is that they add to thatch buildup. Thatch is undecomposed organic matter such as roots, stems and undergrowth, which can make a lawn unsightly and unhealthy. But the cause of thatch, Bruneau says, is more likely to be excessive grass growth from overfertilizing, or allowing grass to get too high before mowing, or incorrect watering.

If you'd rather not leave grass clippings on your lawn, you can compost them. Composted grass clippings, as well as other yard waste, can be used as a mulch or soil conditioner.

(The September Carolina Country *will include a story on how to start a compost pile.)*

By following a few simple guidelines for mowing, fertilizing and watering, you will help grass clippings to decompose and release their rich nutrients to fertilize the lawn. As a result, your lawn will grow at an acceptable rate, retain a green color, and develop a deep root system.

MOWING TIPS

A basic rule of thumb for mowing grass is to remove no more than one-third of its growth per cutting. Occasionally, prolonged rains make it impossible to mow regularly. In these cases, you should raise the mower height. Mow once and spread the clumps of grass clippings evenly over the lawn to allow them to disintegrate; or allow the clippings to dry for a day or two, then mow again to distribute clippings evenly.

If you are unable to mow for some time, and the quantity of clippings is too great to leave on the lawn, use the clippings as mulch in tree and shrub beds.

You will get the best results if the lawn is dry. Dry grass is more easily distributed and doesn't tend to clog your mower.

Also, mow with a sharp blade. Dull blades can give the lawn a ragged appearance and increase disease problems.

WATERING AND FERTILIZING TIPS

During extreme dry spells, try watering your lawn. Water it in the morning when evaporation is not intense. Early morning watering also reduces disease problems and poor water distribution caused by wind which may kick up later in the day.

Measure how much water you use for irrigation by placing a can or two on your lawn to catch the water. Give lawns grown on sandy soils a half-inch of water when irrigating; heavier growth needs about an inch. Avoid watering so much that surface runoff occurs.

Don't water fescue, bluegrass or ryegrass lawns in the summer unless you plan to do so all season. Many of these types of lawns are harmed by discontinuing irrigation in midsummer. Be consistent with your watering routine; your lawn can't go on vacation with you.

Also, don't water until you see the first signs of wilt. Wilted lawns have a blue-green appearance, leaf curl or footprints that remain on the lawn. Look along sidewalks or roadside surfaces for first signs of wilt.

Light, frequent waterings can cause shallow roots and weakened turf. On the other hand, overwatering subjects grass to disease and excessive growth.

Fertilize according to recommendations on the fertilizer label. Do not over fertilize. Apply fertilizer when the grass is dry to prevent the foliage from being burned and to allow the fertilizer to fall around the bottom of the plants where it can seep easily into the soil.

For more information, contact the North Carolina Cooperative Extension Service at N.C. State University, 2409 Williams Hall, Box 7620, Raleigh, N.C. 27695-7620. Phone: (919) 515-5854.

"BRIGHT HOPES" FOR GREATER TRIAD MARCH OF DIMES

Phylby's Prints of High Point and North Carolina artist Linda Kotila have joined with the Greater Triad Chapter of the March of Dimes to offer a time limited edition print that will benefit the chapter's Campaign for Healthier Babies.

Prints of Kotila's watercolor "Bright Hopes" must be ordered in advance. The number of prints to be issued will be determined by the number of orders received as of Sept. 19.

Kotila is a former resident of High Point who now lives in Sylva with her husband and two children. Her watercolors have won her recognition from the North Carolina Watercolor Society and Southern Living magazine's Southern Craft Show in Charlotte. She was also a finalist in a national competition sponsored by The Artist magazine.

Prints of "Bright Hopes" will measure about 22 1/2-by-15 1/2 inches. Signed and numbered prints cost $80 each. Ten artist proofs are available for $120 each, and 40 remarqued proofs cost $160 each. Orders for remarqued proofs may be accompanied by a photo of a child, which the artist will reproduce as the remarque.

"Bright Hopes" by Linda Kotila.

Orders must be pre-paid, including $10 for postage and packaging. North Carolina residents must add six percent for sales tax. All orders must be received by Sept. 19. Ten percent of the proceeds from the project will go to the March of Dimes chapter for its work in preventing birth defects and related problems, such as low birth weight and infant mortality.

Pre-payments will be returned if orders for the prints do not total at least 500.

For an order form or more information, contact The March of Dimes, 500 W. Fourth St., Suite 100, Winston-Salem, N.C. 27101. Phone (toll free) (800) 443-4093.

COLLECTIBLE FIGURINES OFFERED BY ASHE LITERACY LEAGUE

Charles Earnhardt, a North Carolina native who is recognized as one of the leading contemporary wildlife artists in the country, has sculpted a limited edition figurine that is being sold exclusively to raise funds for the Adult Literacy League of Ashe County (ALL).

The collectible figurine, which is handpainted and signed by the artist, shows a mother mouse reading to a baby mouse. The tiny sculpture, which comes with a tiny hook on top so that it could be used as a Christmas ornament, is the last figurine in a set of three sculpted by Earnhardt for ALL.

ALL is a non-profit organization that works to enhance the quality of life for illiterate and functionally illiterate Ashe County citizens. The program teaches these people to read, to write and to do basic arithmetic. It also helps them learn related daily living skills.

ALL, an all-volunteer organization, provides free training, tutoring materials and support for the tutors. The tutors are matched with adults who want to improve their reading skills in confidential one-on-one lessons. The organization is supported primarily through community donations.

A Charles Earnhardt figurine.

The mail order price for the figurine is $24.95, which includes tax, shipping and handling. Orders for Christmas shipment must be received by Nov. 15. Allow up to four weeks for delivery.

Make your check or money order payable to the Adult Literacy League, P. O. Box 1352, Jefferson, N.C. 28640.

For more information, contact Nancy Jordan, Rt. 1, 148 Library Drive, West Jefferson, N.C. 28694. Phone: (919) 246-2041.

RALEIGH HIGH SCHOOL PRODUCES 2ND WINNING TURKEY RECIPE

For the second straight year, a Millbrook High School student has won national honors in the National Teen Turkey Lovers' Recipe Contest.

Sylvia Massenburg, a rising senior at the Raleigh high school, is the second-place winner in the contest.

The reward for her turkey gyro sandwich recipe and her two winning essays includes a $1,000 prize from the National Turkey Federation and $500 from the North Carolina Turkey Federation.

Massenburg plans to use the prize money toward her matriculation in the associate degree program in Early Childhood Education at Wake Technical Community College.

Her home economics teacher at Millbrook, Judy Smith, received a video cassette recorder for the classroom in recognition of her dedication to teaching about food and nutrition.

Last year's grand prize winner in the contest was Julie Bowman, also of Millbrook High School.

Massenburg's entry was among 500 submitted by teenagers from across the nation.

The gyro sandwich recipe (printed below) calls for ground turkey made into spiced burgers and combined with a light yogurt dressing, lettuce, tomato and onion on pita bread.

Turkey Gyro Sandwich

1 pound ground turkey
½ teaspoon salt
1 clove garlic, minced
¼ teaspoon allspice
4 6-inch pitas, tops cut and warmed
4 leaves red leaf lettuce
1 small onion, thinly sliced
1 small tomato, chopped

Dressing:

1 cup plain yogurt
¼ teaspoon salt
¼ teaspoon dry dill weed
1 clove garlic, minced
1 tablespoon lemon juice

In medium-size bowl combine turkey, salt, garlic and allspice. Evenly divide and shape turkey mixture into 4 burgers, approx. 4 inches in diameter.

In large non-stick skillet, over medium heat, saute turkey burgers 3 to 5 minutes on each side or until turkey is no longer pink in center.

In small bowl combine yogurt, salt, dill, garlic and lemon juice; set aside.

To serve, place lettuce on one side of each pita, top with turkey burger, onion, tomato and drizzle with ¼ cup dressing. Serves 4.

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SAVE $5	All 3 bags plus checkbook wallet ($35 value) only $29.95! (61185)			$
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			Subtotal	$
			NY, CA add sales tax	$
			TOTAL	$

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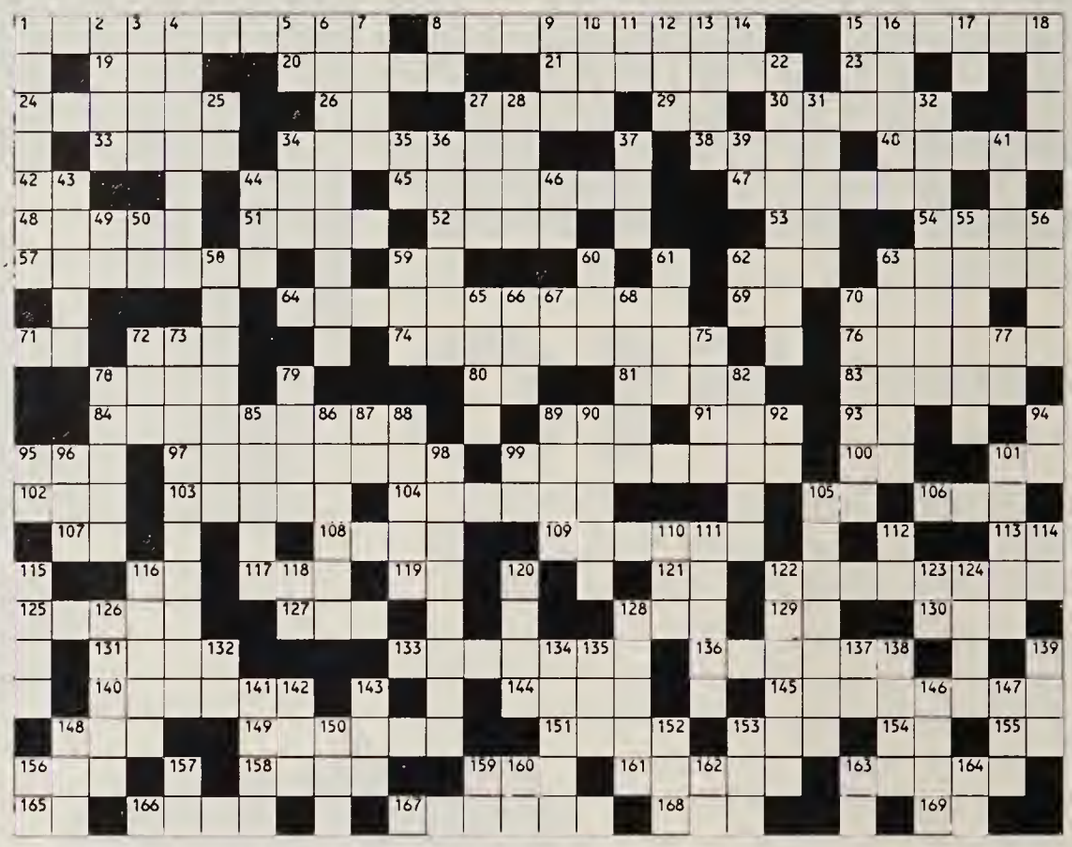
Rural Electric News Service

CROSSWIRES

By Judith M. Smith



ACROSS

1. Auxiliary
8. A form of baptism
15. Trifles
19. Charged particle
20. Looks for
21. A device used to hold a paddle in place
23. Latin: that is
24. Temporary suspension of power
26. Symbol for tantalum
27. Crazy
29. Means long playing
30. Unable to move
33. Makes mistakes
34. Reaching of a goal or objective
38. You keep missles here
40. Encourages
42. Symbol for rhenium
44. Actress Lupino
45. Started again
47. Crownlike part of a structure
48. To put forth effort
51. Stone
52. Cesspool
53. Abbr.: weight
54. Short letter
57. Get off the subject
59. Preposition
62. ____, humbug!
63. Type of showy flower
64. Enterprise owned jointly by its users
69. Stands for overtime
70. Prefix meaning partly
71. Stands for physical education
72. Article
74. Commentary expressing opinion
76. Negatively charged ion
78. Line of junction between two pieces of material
80. Abbr.: old English
81. Woe is me!
83. _____ Ross
84. Used for viewing ships by subs
89. Abbr.: general
91. Pigpen
93. Prefix meaning two
95. Greek letter
97. Reminder
99. One who plunders for profit
100. Abbr.: lord
101. Symbol for plutonium
102. Noah had one of these
103. Eyed
104. Territory
105. Symbol for beryllium
106. Abbr.: Equal Rights Amendment
107. Not she
108. Taking hold of property as debt security
109. Vision
113. Abbr.: vapor density
114. 3.14
117. Abbr.: saint (feminine)
119. Abbr.: right
121. Abbr.: Greece
122. Scented oils
125. Throwback
127. Donkey
128. Actress Arthur
129. Abbr.: electron volt
130. Bright color
131. Oust
133. Without affectation
136. In truth
140. Removed
144. Type of ranch
145. A person who hides aboard ship to obtain free passage
148. Unopened flower
149. Type of flower or color
151. Actress Donna ____
153. Plaything
154. Symbol for chromium
155. Coffee, tea or _____?
156. Wager
158. Electric _____
159. Abbr.: United States of America
161. Sofa
163. Newspapers come out this often
165. Abbr.: registered nurse
166. Suffix meaning action
167. To drink to excess
168. Not woman
169. Prefix meaning reverse

DOWN

1. Scrubbed
2. What we do with our teeth
3. Fly high, glide
4. An ungrateful person
5. To the same extent
6. Instrument that holds back the edges of a wound
7. Twelve months
8. Form of be
9. A long time
10. Sting____
11. Abbr.: senior
12. Sick
13. What we say when we make a mistake
14. North Carolina
15. Ascot
16. Show that is played over again
17. Virgin Islands
18. _____and Crafts
22. One thousand watts
25. Suffix added to -x, -ch, -s
27. Actress Pitts
28. Short for alumni
31. Not South
32. Send
34. Much_____about nothing
35. Symbol for element iridium
36. Settled, complete
37. Opposite of subtract
39. Suffix meaning of
41. Suffix meaning smaller
43. Enforced removal from one's native land
44. Abbr.: Internal Revenue Service
46. Abbr.: military police
49. Latin: For example
50. Abbr.: railroad
55. Lazy
56. Centimeter-gram-second unit of energy
58. Apparent
59. Monkey
60. Evergreen tree
61. Not fake
62. Abbr.: body odor
63. Story by Birgil
65. Wild distrubance created by a large number of people
66. Eaten
67. Toward
68. An article of food
70. To undertake superficially
72. Use these when playing golf
73. Exhibiting accord in action
75. Fina
77. New York
78. An ear of grain
79. Peak
82. Used to cook food
85. Opposite of buys
86. Lots and lots
87. Abbr.: promissory note
88. Type of duck with soft feathers
89. _____Reaper
90. _____, meenie, minie, moe
92. Abbr.: year
94. Abbr.: queen
95. California
96. Abbr.: Her Royal Highness
98. Written agreeme between parties
99. Pennsylvania
101. Covered with asphalt
105. Shortness
110. Get older
111. Extremely seriou
112. Perhaps
114. Abbr.: decistare
115. Staff, esp. on a s
116. Pleasurable satisfaction
118. Symbol for tantalum
120. A coating of filt
122. Individual
123. Abbr.: Uruguay
124. Cats say this
126. Type of fish
128. To lose blood
132. Initials for Ted Turner
134. Not urban
135. Drink
137. _____and behol
138. Young Women' Christian Assn.
139. "Yes," in sailor li
141. Level
142. Expire
143. Abbr.: autograp letter signed
146. Dry
147. Girl's name
148. Gentle _____
150. Ancient
152. Not well lit
153. Light brown
156. Symbol for bror
157. Nickname for D
159. Opposite of dov
160. Abbr.: Spain
162. Virginia
163. _____, re, mi ...
164. French article

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IDE BIKES IN THE BLUE RIDGE

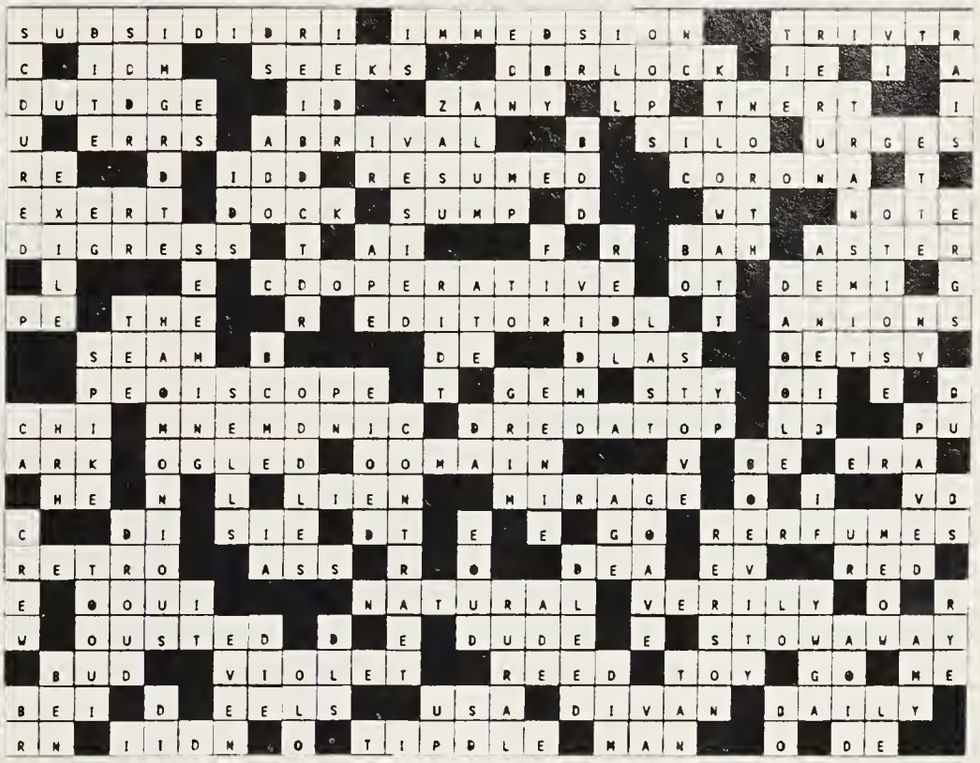
The Ashe Civic Center is sponsoring a "Bikeathon 92" Aug. 28-29 for experienced and ecreational bicycle riders.

The Aug. 28 "Challenge Mount efferson" is a 3.5-mile climb to the illest peak in Ashe County. It begins t 6 p.m. at the Blue Ridge Electric lembership Corporation.

The Aug. 29 "Blue Ridge Brutal 00" will take riders on routes of 25 nd 50 miles along parts of the Blue idge Parkway. It begins at 7 a.m.

The Mount Jefferson race registraon fee is $10. The Blue Ridge route e is $25. Proceeds benefit the Ashe ivic Center building fund.

Registration cards must be sent by ugust 15. Contact "Bikeathon 92," O. Box 1102, West Jefferson, N.C. 3694. Phone: (919) 246-4483.



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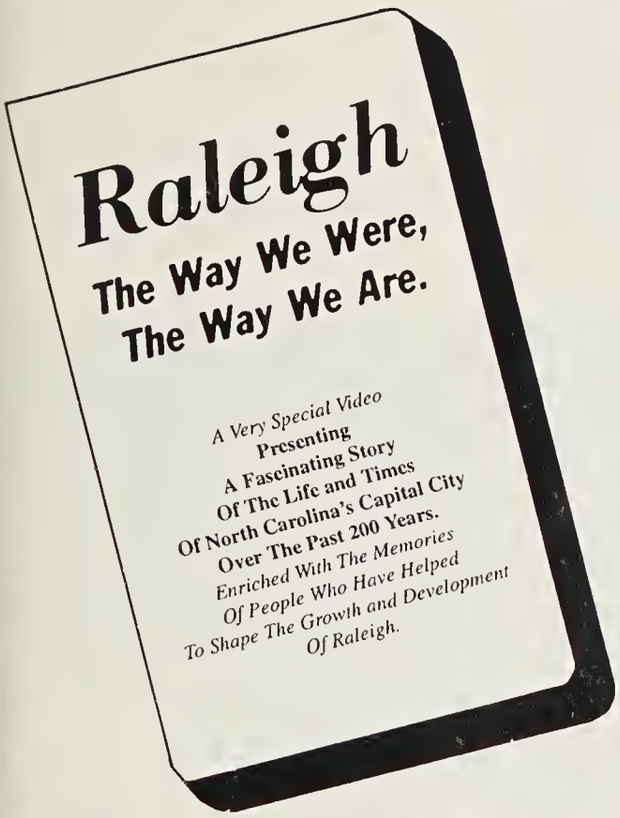

This commemorative video is not Chamber of Commerce boosterism. It is a fascinating tale of the interesting and relevant times that shaped the city that affects the lives of just about everyone in North Carolina. This unusual video even rattles the bones of some of the skeletons hidden in Raleigh's official closets.

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NATIONAL NOSTALGIA

NRECA OVERCOMES NIXON CHALLENGE

Maintaining the mission

BY J.C. BROWN

RURAL ELECTRIC NEWS SERVICE

The October 1942 "NRECA Bulletin" — a monthly magazine — carried an italicized blurb on its cover that today would be called a mission statement: "One cent electricity for every farm home."

That was the rallying cry and, with slight alteration out of respect for the changing nature of rural areas, it appeared in the magazine until December 1974. By that time, the monthly magazine was called "Rural Electrification," and it was clear that the country was moving away from the dream of cheap electricity, not toward it.

Until the early 1960s, most rural electric systems described their purpose as serving the unserved rural people of their areas with central station electricity "at the lowest possible cost consistent with nonprofit operations and prudent business practices."

Rural electric cooperatives adjusted their goals in the 1960s, substituting "affordable" for "lowest possible. This was a bigger philosophical leap than you might think. Well into the 1960s, I was to hear and respect the arguments of the keepers of the flame that "affordability" and "rate comparability" had nothing to do with rural electrification. Rates must be at the lowest possible cost, they argued.

Academically, the argument lives on today with a broader equation. It must include costs that initially would have been considered unnecessary but now are standard expenditures for successful business enterprises.

As the demand for capital among the rural electric systems increased, the national association modified its mission to recognize the increasing competition for congressional appropriations; and it broadened its outlook to provide national leadership in trying to reverse the economic decline of rural areas.

The National Rural Electric Cooperative Association turns 50 this year. The Washington-based organization represents about 1,000 consumer-owned rural electric cooperatives. J.C. Brown, who writes about NRECA's history in this recurring series, is former editor of this magazine and a former manager of the North Carolina statewide organization of electric co-ops. The Waynesville native is manager of association publications for NRECA.

And a budding environmental awareness in America injected new concerns into the association's agenda, which from the beginning had been prominently committed to helping rural electric consumers cut costs.

During its first 20 years, NRECA was militantly committed to obtaining low-cost capital and cheap federal power for rural electric systems. During the past 30 years, it has increasingly accepted broader responsibilities.

It has worked for legislation and established substantive action programs in the fields of rural health, rural development, rural housing, education, satellite television service, water and sewer systems, and Third World efforts to achieve rural electrification.

The association deserves most of the credit for writing and successfully lobbying for the Rural Development Act of 1972, which blocked President Nixon's effort to set up a new agency that would have taken over (and likely killed) the Rural Electrification Administration.

The bill provided that the Department of Agriculture would handle all federal rural development activities. REA survived, but on Dec. 29, 1972, the Nixon administration issued a press release saying the REA loan program was being turned over to the Farmers Home Administration. This gave NRECA its most serious challenge since it was incorporated.

Encouraged by organized labor and some other coalitions, and masses of rural electric directors and managers, Congress acted a few months later to reject the Nixon plan and adopt a new loan program NRECA had devised. It remains intact, providing 5 percent loans and loan guarantees. Although this restricted the availability of 2 percent loans, it preserved them for the most thinly settled areas or for those co-ops with serious financial hardships.

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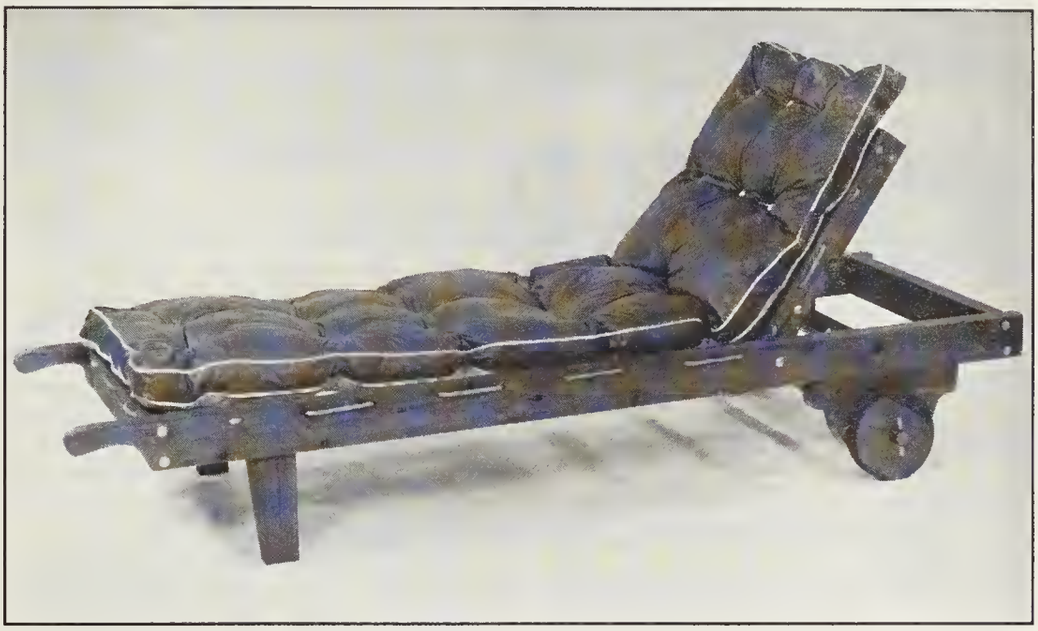
The detailed project plan for a chaise lounge features more than a dozen step-by-step pictures with directions, diagrams, materials lists and simple instructions on how to sew the canvas seats.

A companion chair and ottoman are included on the same plan sheet.

If you prefer the natural beauty of wood, try the plan for a Sequoia chaise.

Measuring 78 inches long and 27 inches wide, this chaise pattern was designed with comfort in mind. It features an adjustable back and wheels for mobility.



By following the step-by-step directions, materials list, drawings and photos, you will be guided through construction from tracing the full-size pattern onto redwood, to cutting and assembly. The standard size 22-inch by 72-inch mattress pad can be found at most home centers and is supported by 1/4-inch hemp rope woven through frame holes. Instructions for using slats instead of rope are also included in the pattern.

To order "PVC Lawn Furniture **Plan 649**," or "Sequoia Chaise **Pattern 174**," send $6.50 for each.

Also available is the "PVC Packet" for $14, which includes a dining set, lawnswing and hammock as well as the lawn and patio furniture.

To add to the redwood projects, consider the "Lawn Packet C22," which describes eight outdoor projects, including a double version of the Sequoia chaise as well as a glider swing, outdoor storage and more.

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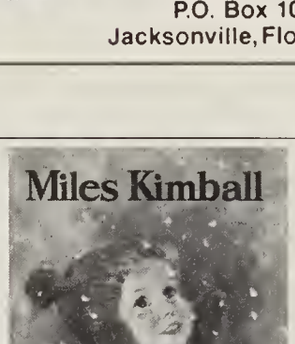

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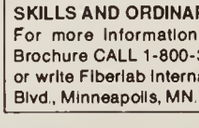

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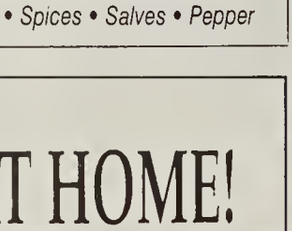

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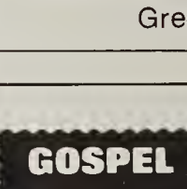

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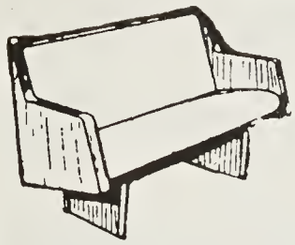

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LABEL MUST INDICATE THE SOURCE OF BOTTLED WATER

Thanks to a new state regulation, consumers can now more easily distinguish between bottled spring water and well water sold in North Carolina.

The regulation took effect April 1.

State Agriculture Commissioner Jim Graham said North Carolina is one of the first states to adopt such regulations.

"Arkansas and Georgia have passed similar regulations," he said, "and other states are looking into it. People are willing to pay more for spring water but are confused by labeling. When shopping, it's hard to tell the difference between spring water, well water and other bottled water. Consumers are entitled to get what they pay for."

The North Carolina Department of Agriculture's Food and Drug Protection Division contacted water bottlers in North Carolina and out of state to determine each product's water source. Products requiring label changes had to be relabeled by April.

Graham said the regulations say spring water is a natural flow of ground water to the earth's surface without mechanical aid. Well water, he said, originates from holes either cored, bored, drilled, jetted or dug to tap an aquifer.

Water derived from a bore hole or well can be sold as either well, drinking or natural water, as long as the label does not imply that the product is spring water or originated from a spring.

James Heaton III, president of the N.C. Spring Water Association, Inc., said five North Carolina companies have state-approved springs.

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PAMPHLET HELPS COMPUTE MANUFACTURED HOME'S COST

If you're in the market for a mobile home and need help in calculating the total investment you'll be making in the unit, including financing and energy costs, a new publication can help you come up with an estimate.

The North Carolina Manufactured Housing Institute (NCMHI) has developed a pamphlet entitled, "How To Buy Today's Manufactured Home," which includes worksheets for computing the costs.

The institute developed the pamphlet with assistance from the state's electric utilities, including Carolina Electric Cooperatives.

The publication contains sections on buying a home for private property or for a manufactured housing community, financing options, and how to factor tax savings into your payment schedule. By using the worksheet, a consumer can determine the most cost-effective options available in terms of the initial investment and lifetime costs.

Institute officials said the publication was prepared to help consumers focus on the importance of energy efficiency features in manufactured housing. Without them, the homeowner can face monthly energy bills that exceed the monthly mortgage payments. Studies show that such features can reduce heating and cooling costs in these units by up to 40 percent.

For a copy of the publication, contact your Electric Membership Corporation or NCMHI, P.O. Box 58648, Raleigh, N.C. 27658-8648. Phone: (800) 849-6311. Be sure to ask for the worksheet by name.

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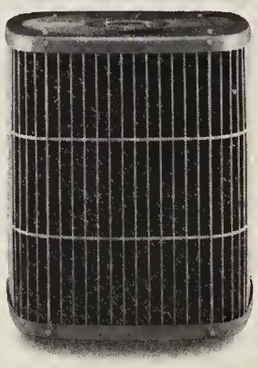

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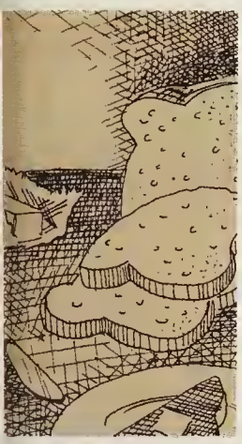

MRS. EISIMINGER SAYS NOW THAT CARROTS AND ZUCCHINI WILL BE COMING IN SOON, I THOUGHT YOU WOULD LIKE THIS RECIPE. IT ALSO FREEZES WELL

CARROT ZUCCHINI CAKE

Submitted by Mrs. Dorothy Eisiminger, Canton

Cake:

4 eggs
2 cups sugar
1⅓ cups vegetable oil
2 teaspoons baking powder
2 teaspoons baking soda
2 teaspoons cinnamon
1 teaspoon cloves
1 teaspoon allspice
1 teaspoon ginger
½ teaspoon nutmeg
1 teaspoon salt
2½ cups all purpose flour
2 cups grated carrots
1 cup grated zucchini
1 cup chopped pecans or walnuts

Frosting:

1 (8 oz.) package cream cheese, softened
½ cup butter or margarine
5 cups confectioner's sugar, sifted
2 teaspoons vanilla

In a large bowl, beat eggs and sugar until frothy. Gradually beat in oil. Combine dry ingredients, add to batter. Beat 4 minutes. Stir in carrots, zucchini and nuts. Pour into three greased pans. Bake at 350 degrees for 35 minutes. Cool 5 minutes before removing from pans. Cool completely.

Frosting: Beat cream cheese and butter or margarine until smooth. Add sugar and vanilla. Mix well and spread on layers, sides and top. Garnish with whole or chopped nuts. (Yield 12-14 servings.)

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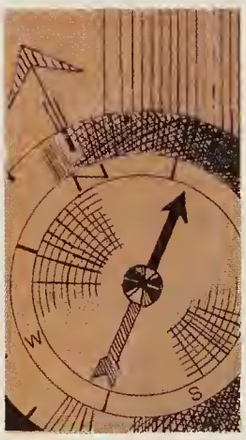

SUMMER FESTIVALS ...
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HERTFORD HOSTS INDIAN SUMMER FESTIVAL

The Perquimans County Indian Summer Festival, scheduled for Sept. 18-19, will feature bands, dancing, arts and crafts, sidewalk sales, a pig pickin' and other entertainment.

For more information, contact the Perquimans County Chamber of Commerce, P.O. Box 27, Hertford, N.C. 27944. Phone: (919) 426-5657.

A TRIBUTE TO DOROTHY AND WALTER AUMAN

In Praise of Potts: "A Tribute to Dorothy and Walter Auman," a special exhibit honoring the late potters, is currently on display at Charlotte's Mint Museum.

The exhibit, which will be open until Feb. 28, 1993, is a tribute to the ceramic heritage of North Carolina and to the Aumans, who dedicated themselves to that heritage by collecting, documenting, exhibiting and promoting the state's pottery.

Among the 165 pieces selected for the show are early North Carolina earthenware, stoneware, salt-glazed and alkaline-glazed ware produced in the Catawba Valley and Asheville mountain traditions. Decorated pottery produced in the 20th century in Randolph and Moore Counties also is featured.

The exhibit also contains documentary photographs, catalogues, trade cards and other items illustrating the history of Tar Heel pottery.

The Mint Museum hours are Tuesday from 10 a.m. to 10 p.m.: Wednesday through Saturday, 10 a.m. to 5 p.m. and Sunday, 1 p.m. to 6 p.m.

For more information, contact the Mint Museum at 2730 Randolph Road, Charlotte, N.C. 28207. Phone: (704) 333-6468.

WRITERS PUBLISH "ANSON PATHWAYS"

The Anson County Writers' Club has published "Anson Pathways," a collection of prize-winning prose and poetry from 1989 to 1991.

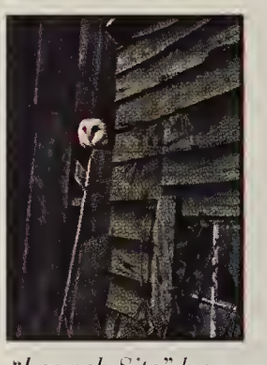
The book can be purchased at "The Anson Record," the Anson Community College, the Anson County Historical Society, Simply Country and Lacy's in Wadesboro.

The book costs $6.50. For mail orders add $1.50. Send your check to The Anson County Writers' Club, c/o Elbert Marshall, 603 Woodland Drive, Wadesboro, N.C. 28170.

WILDLIFE AND SPORTSMAN'S SHOW SLATED

The fifth annual North Carolina Wildlife and Sportsman's Show is scheduled at various locations in New Bern, Sept.12-13, with an auction set for Sept.11 to kick off the weekend.

The show will feature nationally acclaimed artists and craftsmen, a sporting gun and custom knife show, exhibits by conservation groups, retriever demonstrations and other events.



"Launch Site" by Francis Sweet.

The featured artist will be Francis E. Sweet, winner of duck stamp contests in three states, who created the show's official poster.

Admission is $8 for both days and $5 for one day. Children 12 and under are admitted free when accompanied by an adult.

Proceeds from the show will be used to support a number of conservation groups.

For more information, contact the New Bern Area Chamber of Commerce, P.O. Box Drawer C, New Bern, N.C. 28563. Phone (919) 637-3111.

DAVIE COUNTY ARTS ALIVE FESTIVAL

The Davie County Arts Council is sponsoring its annual Art Alive Festival Sept.19 from 9 a.m. to 7 p.m. at the Masonic picnic grounds in Mocksville.

The celebration features arts and crafts, a "kids only" creative corner, a variety of foods and live entertainment throughout the day.

The featured guest will be country singer Nicolet Larson.

Admission is free.

For more information, write or call the Davie County Arts Council, P.O. Box 744, Mocksville, N.C. 27028. Phone: (704) 634-3112.

"Battle Against the Mosquitos" by Cheri Samba appears in the "Africa Explores" exhibit at the Mint Museum.

AFRICAN ART AT CHARLOTTE'S MINT MUSEUM

Africa Explores: 20th Century African Art" will be on display at Charlotte's Mint Museum Aug. 8 through Oct. 11.

Although African art presented in the United States has largely been limited to "primitive" tribal art, "Africa Explores" presents a sampling of various kinds of distinctive art from both urban and rural areas.

Over 130 works reflect the broad range of styles that evolved in this century, from traditional sculptures to new functional art such as coffins made to resemble an onion, a Mercedes and a Pan Am jet.

Following its North Carolina appearance, the exhibit will visit Pittsburgh's Carnegie Museum of Art and the Corcoran Gallery in Washington, D.C., completing a two-year national tour.

Museum admission is $4 for adults, $3 for senior citizens, $2 for students. It's free to members and children 12 and under.

For more information, contact the Mint Museum of Art, 2730 Randolph Road, Charlotte, N.C. 28207. Phone: (704) 337-2000.

WIN CITY HOSTS CHILI COOKING HAMPIONSHIP IN CLEMMONS

The Greater Triad Chapter the March of mes Birth De- cts Foundation ll hold the 10th nual North rolina Chili ampionship from 11 a.m. to 5 p.m. Sept. 19 at Tanglewood Park in Clemmons.

Cooks from all over the state will compete in various cooking categories based on Chili Appreciation Society International rules.

The day also includes live entertainment, a Rubber Duck Regatta down the Yadkin River, the Beth Tartan Memorial State Cake Bake and more.

All proceeds from this event benefit the March of Dimes Birth Defects Foundation and its Campaign for Healthier Babies. The March of Dimes is a nonprofit volunteer organization whose mission is to prevent birth defects and infant mortality through education, research, advocacy and community services.

For more information, contact Emily Baker, March of Dimes Birth Defects Foundation, Greater Triad Chapter, 2110 Cloverdale Avenue Suite 1 C, Winston-Salem, N.C. 27103. Phone (800) 443-4093.

STEAMBOAT GOTHIC DAYS IN HAYESVILLE

Steamboat Gothic Days in Hayesville, scheduled for Sept. 5-6, will feature turn-of-the-century recreational events, such as a greased pole climb, an archery competition, a horseshoe competition, a croquet tournament, a barbershop quartet, an antique car show, and a Victorian costume parade.

For more information, contact the Clay County Chamber of Commerce, P.O. Box 88, Hayesville, N.C. 28904. Phone: (704) 389-3704.

4TH ANNUAL ANTIQUE ENGINE FESTIVAL

An array of old tractors, vehicles, gas and steam engines will be on display at the Fourth Annual Antique Engine Festival Sept. 11-13 at Rhode's Pond near Dunn.

The festival will also feature entertainment, food and a variety of crafts.

Rhodes Pond is located six miles south of Dunn, near the Godwin-Falcon exit off Interstate 95.

For more information, contact Jerry Honeycutt, Rt. 4, Box 220, Dunn, N.C. 28334. Phone: (919) 980-1039.

RUMMAGE SALE IN BOONE TO BENEFIT SOCIETY

The Humane Society of Watauga County will hold its annual rummage sale at the Armory in Boone, Aug. 14-15, beginning at 8 a.m. each day.

The sale will feature furniture, small electric appliances, household goods, books, clothes, handcrafted sterling silver jewelry, pewter, heirlooms and antiques.

The proceeds from this event will support the Humane Society's annual Low Cost Spay/Neuter Clinic, which helps reduce the number of excess animals produced in the county.

For more information, contact the Watagua Humane Society, P.O. Box 267, Blowing Rock, N.C. 28605. Phone: (704) 295-3657.

ENFIELD PEANUT FESTIVAL SET FOR SEPT. 12

The Enfield Peanut Festival's annual salute to the goober is slated for Sept. 12 from 10 a.m. to 5 p.m. in downtown Enfield.

The festival will feature arts and crafts, agricultural exhibits, antique cars, children's entertainment and a variety of food.

A dance featuring the beach music bands the Showmen and the Catalinas is scheduled from 6 to 10 p.m. at the fairgrounds.

Also, a one-day golf tournament is planned for Sept. 13 at Scotfield Country Club. If you are interested in playing, contact Stuart Locke at (919) 445-5224.

For more information about the festival, contact the Enfield Peanut Festival, c/o Jacqueline Allsbrook, P.O. Box 625, Enfield, N.C. 27823. Phone (919) 445-5224.

THE SWORD OF PEACE SUMMER CELEBRATION

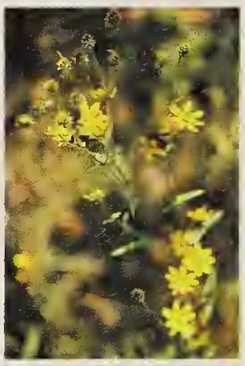
The Sword of Peace Summer Celebration presents William Hardy's, "The Sword of Peace," a dramatic historical portrayal of the struggles of the peaceful Quakers during the American Revolution. Performances are scheduled for August 6-8 at 8:30 p.m. at the amphitheater in Snow Camp.

In addition, "Mame," the summer celebration's Broadway musical, will be presented Aug. 12-15 and Aug. 19-22 at 8:30 p.m.

For ticket information, contact the Sword of Peace, P.O. Box 535, Snow Camp, N.C. 27349. Phone: (919) 376-6948 or (800) 726-5115.

NATURE CONSERVANCY WILL PRESERVE TWO N.C. TRACTS

The North Carolina chapter of Nature Conservancy recently acquired two tracts of land, bringing the chapter's list of preserves to 54.



The rare Schweinitz sunflower of Union County's prairie.

The 274-acre Black Ankle Bog near Uwharrie National Forest in northeastern Montgomery County harbors two of the Southeast's rarest natural communities — a hillside seepage bog and a Piedmont longleaf pine forest, the organization reports.

Black Ankle Bog is rich in organic matter and hosts rare plants and animals. One of the plants is the bog spicebush, a globally endangered shrub.

The 11.6-acre Mineral Springs Barrens natural area in southwestern Union County is one of the best remaining examples of a Piedmont prairie, according to Nature Conservancy officials. The prairies, known locally as "blackjacks," were the anecstral home of the eastern subspecies of the American bison. The Union County tract hosts the world's largest known population of the federally endangered Schweinitz's sunflower, along with an abundance of wildflowers.

THE FIRST PHONETIC COOKBOOK

A professional nutrition consultant and the South Carolina Literacy Council teamed up to issue a new specialty cookbook that helps people improve their reading skills while they enjoy delicious recipes.

"Recipes for Learning to Cook," published by Dacc Publishing, was written by Sam Dickinson, a nutritional specialist. Each recipe lists the dish's sodium, fat and cholesterol content and its calorie count.

The material is designed for non-readers who are on restricted diets who lack the reading skills required to use other dietary information.

The recipes are written by a noted cookbook author and gourmet cook and are designed for adult readers with limited reading skills.

The idea for the cookbook came to Dickinson when he was working with a class in cooking and nutrition. He hoped to lead the class as a way to teach reading and diet to adult learners in his community. When he found there were no such cookbooks available, he and his fellow volunteers decided to develop one in conjunction with the South Carolina Literacy Association. Proceeds from the sale of the book will go to state and local literacy groups to help fund their programs.

"Recipes For Learning to Cook" serves as a motivational tool for adults who want to enjoy well balanced meals even if their reading skills would not allow them to use a standard cookbook.

Additional information about specific programs built around the book are available upon request. To order the book, send a check or money order for $15 (includes postage and handling) to Dace Publishing Company, c/o Literary Cookbook, 163 Seminole Ct., Charlottesville, Va. 22901. Phone: (804) 978-7007.

CATFISH FEED MILL OPENS IN FARMVILLE

The Southern States Cooperative's new feed mill in Farmville was toasted during a June 17 open house. The event began with a breakfast featuring an address by North Carolina Agriculture Commissioner Jim Graham. The $8.5 million mill, which manufactures a range of animal feed products, is the first in the state to include facilities for producing catfish feed. The plant serves Carolina Classics Catfish in Ayden. The Pitt County operation is the state's largest catfish processor. In addition to the feed mill and the Farmville Service store, Southern States operates a seed processing plant and a farm chemical warehouse in Farmville. Also, the co-op's Motor Transport Service has a Farmville operation. The Richmond-based cooperative has more than 200,000 members in six states.

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HANK'S GARDENING GUIDE

BY HANK SMITH

A WORD ABOUT WATERING

During the "dog days" of summer, watering takes top priority. Many ornamental trees and shrubs will grow at an amazing rate if given adequate water during hot weather. If you plan to be away on vacation, arrange for a friend to see that none of your plants suffer a lack of moisture.

Weeding, staking and spraying for insect and disease control seem like never-ending tasks. Don't neglect any of these.

ROOTING CAMELLIAS

Now's a very good time to take cuttings of camellias for rooting. Make four- to six-inch cuttings of tip growth, each cutting with a well developed shoot bud. (Make cutting on a slant, just beneath a leaf.) Remove all but the two top leaves.

Fill a large clay flower pot or wooden box with clean sand, such as builder's sand. (Don't use sand from the seashore as it contains salt.) Soak the sand.

Dip the end of each cutting in a root-inducing hormone such as Roottone. Plunge cuttings into the sand at an angle of about 45 degrees, so the top leaf of each cutting lies flat on the surface. Press sand firmly around cuttings. Sprinkle with water to help pack sand around the stems.

Cover the box or flower pot with a window glass, glass from a picture frame, or cheesecloth. Sprinkle sand thoroughly each day for two weeks. Thereafter, sprinkle often enough to keep sand moist.

After the cuttings root, about midwinter, transfer them to individual containers or plant them outdoors.

Among the quickest rooting of Camellia japonica varieties are Sara Frost, Debutante and Mathotiana.

GET SET FOR THE FALL GARDEN

A small plot well cared for, can produce fresh vegetables from early September into December, most years.

It is important to get a good stand of vegetables early enough to secure a good harvest before the first killing frost. In many cases, the major problem is a lack of moisture—so supplemental irrigation usually will be necessary. To help conserve moisture, apply a mulch of pine straw, compost or other organic material.

Some summer vegetables that are still in the garden can be expected (under favorable conditions) to continue producing until fall. Among these are okra, tomatoes, peppers, carrots, and Swiss chard. Add to these plantings of broccoli, turnips, cabbage, collards, kale, Chinese cabbage, beets, carrots, cauliflower, green beans, leaf lettuce, radishes, spinach and rutabagas. Keep lettuce seed in the refrigerator for 48 hours before planting. This helps to break the dormancy.

Keep the vegetable garden well watered to bring plants through the heat of late summer.

DON'T FORGET TO THIN IRIS

Bearded iris plantings that have become crowded should be dug, divided and replanted now. Cut out any rotted portions of rhizomes; coat with sulfur.

Let rhizomes dry for a few days before planting. Iris beds are made neater by cutting away the browned side leaves of each fan.

PLANTS VARY IN WATER NEEDS

During period of hot dry weather, it is important to know which plants will tolerate the weather conditions better than others. As water often becomes scarce, this can mean the difference between life and death for some plants.

Shallow-rooted plants such as camellias, azaleas, hydrangeas, dogwoods and ferns should be grown soil that is constantly moist. It is harmful if the soil becomes dry for even short period of time.

Among the many plants requiring a soil that is moderately moist are several hollies, including the Chinese and Japanese holly group, the many junipers, pyracantha and nandina.

Some ornamental plants will survive long periods without water; these can take a back seat when water is applied landscape plants. Among those to place at the bottom of the watering priority list are yuccas, vitex, pampas grass, lantana and oleander which grows outdoors in coastal areas.

LATE SUMMER IN THE GARDEN

1. Prune shade trees and non-flowering shrubs. Don't prune spring flowering shrubs as they're now forming next year's flower buds.
2. Fertilize strawberries with 10 pounds of 10-10-10 per 1,000 square feet.
3. Transplant small seedlings of nandinas that have sprouted under established plants.
4. Use mellow loamy soil to pot geraniums that have sprouted under established plants.
5. Dig gladiolus corms as soon as foliage begins to die back. Otherwise, leaves may disappear and corms will be difficult to locate.
6. Remove dead wood and sucker growth while leaves are still on trees and shrubs. Dead wood is easier to spot before leaves fall.
7. Prepare beds now for fall plantings. Space or till each area. Add complete fertilizer and organic matter.
8. Divide and transplant overgrown clumps of lilies, bearded and Louisiana iris, and primroses.
9. Remove old fruiting canes of blackberries and raspberries after fruit has been harvested. Cut away vigorous stems to leave about three feet.
10. Spray roses every seven to ten days.
11. Stake mums, asters and tall-growing annuals to prevent damage from high winds.
12. Make cuttings of hydrangea, abelia, azalea, Pfitzer juniper, and wax ligustrum.
13. Most cut flowers, except glads and roses, should be fully opened when cut.
14. Continue spraying Red Tip Photinia with Daconil to control Entomosporium leaf spot which causes rusty red blotches on leaves. As they increase, the plant declines. Apply Daconil after each shower to keep foliage coated.

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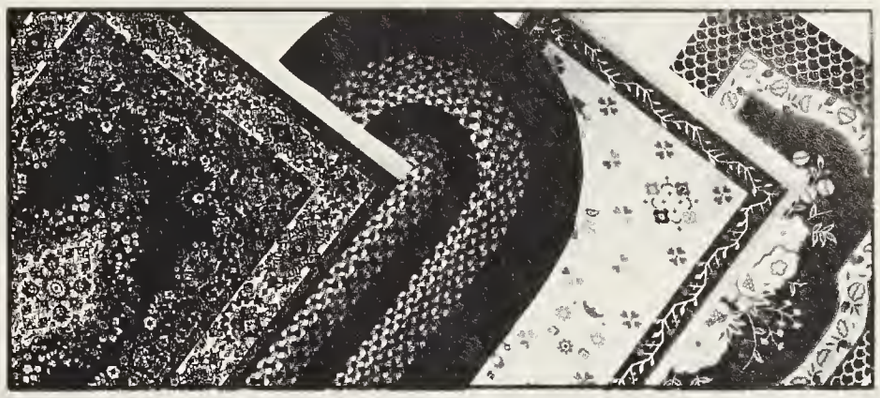

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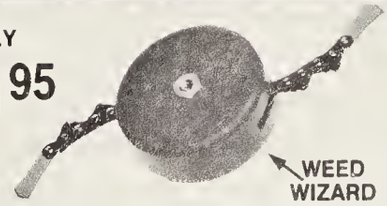

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Founder wouldn't recognize his Normal and Industrial School

Charles Duncan McIver, the founding president of the institution that is now the University of North Carolina at Greensboro, would be amazed if he could return and see what his dream has become.

When he opened the State Normal and Industrial School on Oct. 5, 1892, the institution had 198 students, 15 faculty and a campus of 10 acres with two buildings — and one tree atop a red clay hill.

From that humble origin, UNCG has developed into a doctorate-granting institution with a growing national reputation. Enrollment is expected to be nearly 12,000 students this fall. The two original buildings have multiplied to include more than 70 others on a campus of about 180 acres. The school's budget in 1892 was $10,000. Total revenues for 1991–92 were more than $100 million.

UNCG has been marking its Centennial Year for several months and the festivities continue this fall with a Community Day and Children's Festival Sunday, Sept. 20, beginning at 1 p.m. The public is invited to the campuswide open house to see how McIver's "Normal" has grown.

The event will include: a variety of activities by academic departments: a series of mini-concerts on an outdoor stage; research demonstrations; examples of science in action both outdoors and in labs; sports demonstrations involving UNCG athletes; youth soccer matches; an outdoor rehearsal by UNCG Theatre; and exhibitions at Weatherspoon Art Gallery. A picnic is set for 5 to 7 p.m., to be followed by a 7 p.m. lawn concert by the University Wind Ensemble and University Concert Band.

The North Carolina General Assembly acted on Feb. 18, 1892, to create the institution to educate young women. Its charter specified that the school would "give to young women such education as would fit them for teaching." McIver, who led the way in helping build support for the new school, was named its first president.

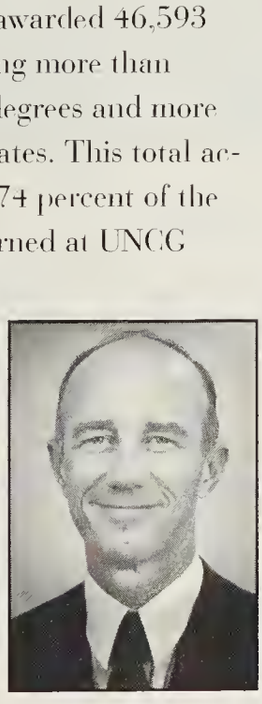
"Charles Duncan McIver, Julius Foust, who succeeded him as president, and others who ran the university in its early years, were very far-sighted people," said UNCG Chancellor William E. Moran. "In some measure, the academic breadth depth and quality this university now has is due to the wisdom of those early leaders. They prepared the base for constructive changes."

The UNCG student plaza outside University Dining Hall.

under Charles McIver

The year 1963 brought dramatic change to Woman's College. The General Assembly changed the college's name the University of North Carolina at reensboro, broadened its education- mission and made the institution -educational. Academic offerings ve since been expanded with the dition of new schools, new depart- nts and new degree programs. En- lment has more than tripled — om 3,737 to nearly 12,000 at sent. Men first arrived on campus undergraduates in 1964 and now ke up more than a third of the dent body.

Statistics help dramatize changes t have taken place at UNCG since mission was broadened. Since 63, UNCG has awarded 46,593 grees — including more than .000 graduate degrees and more n 1,200 doctorates. This total ac- nts for almost 74 percent of the .608 degrees earned at UNCG ce the first de- es were arded in 1893. William E. ran became ncellor of CG in 1979. succeeded nes S. Ferguson, who guided institution for rly 14 years.



UNCG Chancellor William Moran

e Moran years have seen UNCG vance on many fronts. Several re- t highlights under his leadership :

- The School of Education received an $18.5 million, five-year federal contract to establish a regional education laboratory for the southeastern U.S.
- The program of intercollegiate athletics completed its first year of competition in Division I of the NCAA during 1991-92. The Spartans also have become affiliated with the Big South Conference. UNCG fields 12 men's and women's teams.
- The university is moving closer to achieving a status the Carnegie Foundation identifies as a "Research University II." Such institutions award at least 50 doctorates annually and receive between $12.5 and $33.5 million in federal support for research and development. UNCG awarded 70 doctorates in 1991-92 and had overall grants and contract revenues of about $12.4 million.

OFFERING MORE FOR UNDERGRADUATES

Returning alumni marvel at how the face of UNCG's campus has changed. Since 1963, more than 20 major new buildings have been added and major renovations have been made to many others.

Academically, UNCG is composed of the College of Arts and Sciences, with its 18 departments, the Joseph M. Bryan School of Business and Economics, the School of Health and Human Performance, the School of Human Environmental Sciences, the School of Education, the School of Music and the School of Nursing.

The academic program now offers 100 fields of study for undergraduates, 68 majors at the master's degree level and doctoral study in 13 areas. It is one of the three UNC institutions—along with UNC/Chapel Hill and N.C. State University—that offer doctoral degrees in their general curriculum.

A sampling of other major accomplishments over the last decade include:

- Enrollment continues to increase, and from 1985-86 through 1991-92, the average Scholastic Aptitude Test (SAT) among UNCG's entering freshmen rose 61 points.
- Graduate programs in physical education, public health education, human development and family studies and in speech communication have been nationally ranked in studies since 1982. A study of faculty research ranked the Department of Economics second in the country among comparable departments that offer no doctoral programs.
- In 1983, the School of Music was ranked among the top 20 music education and music performance programs in the nation, based on a poll taken by the National Association of Music Executives in State Universities.

Looking ahead, Chancellor Moran said he believes UNCG is in a position to make major educational and research contributions to a growing North Carolina in the university's second century of service.

"My hope and my belief is that this university is going to help North Carolina accomplish its ambitions and address effectively changes that no one now anticipates. We are educating some of the best of the state's young people. We also are active in research and public service. So, in doing what we know how to do and doing it well, we will, I think, serve well the people of North Carolina."

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Date	Electric Membership Corporation	Time	Location
August			
22	Roanoke, Rich Square	Registration: 11 a.m. Business Meeting: 1 p.m.	Co-op Headquarters, Rich Square
29	Albemarle, Hertford	Registration: 12 noon Business Meeting: 2 p.m.	Perquimans High School, Hertford
September			
19	Haywood, Waynesville	Registration: 8:30 a.m. Business Meeting: 10:30 a.m.	Tuscola High School, Waynesville
26	Carteret-Craven, Morehead City	Registration: 5:30 p.m. Business Meeting: 7 p.m.	West Carteret High School, Morehead City

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JOURNAL

BY OWEN BISHOP

WOULD YOUR GRANDCHILDREN SOMEDAY WANT TO FOLLOW YOUR GRANDPARENTING EXAMPLE?

A GRANDMOTHER'S TIPS ON GRANDPARENTING

What image comes to your mind when you think of your grandparents?

Does it take you back to your childhood, as you recall watching Grandmother busily whipping up a batch of your favorite brownies? Is it a scene that might have appeared in the latest warm-and-fuzzy TV spot, with Grandfather leaning over to help you get just the right grip on a baseball bat?

Maybe the special moments you shared with your grandparents were too subtle for these dramatic Norman Rockwell-style tableaus. Maybe you have few meaningful memories involving your grandparents or your best memories are still in the making.

In any case, do you think your grandparents would be appropriate models for your performance in that role? If not, what would you do differently?

If you're already qualified for Grandparents Day honors next month (see box), would your grandchildren someday want to follow your grandparenting example?

If you have some doubts, you might be interested in the following tips for strengthening the relationship with your grandchildren.

Carol Bessent Hayman of Beaufort, a free-lance writer whose work has appeared in *Carolina Country* on several occasions, revisited the memories of her grandparents and examined her own experiences as a grandmother to come up with a dozen suggestions that might prove helpful.

She says a grandchild offers parents "a second chance to succeed" at parenting in part because "we are older and more mellow."

In addition, she said, grandparents usually "find it easier to take extra time— to give hugs, encouraging words or just to listen. It is a privilege to be part of the life of a grandchild — or any young person you care about. Reach out and capture the opportunity!"

Here are her suggestions:

• Write to them and ask them to write to you. Send them snapshots, clippings, stamps or cards. Show an interest in their collections; tell them about yours.

• Call them on birthdays, when they get a good report card or special recognition.

• Include them in your regular calls to their house. Always send your love or an encouraging message.

• Be there for them. Tell them to call you if there's an emergency or

vhenever they need advice. Be sure hey have your phone number and now they can call collect.

• Invite them for a visit without heir parents. It'll help you get to now each other better. Even if you lo it only out of obligation, it'll mean a lot to the children. It might turn out o be a pleasant diversion for you. In ny case, you can certainly survive or a few days.

• Listen to them when they talk to ou. Try to understand them and heir problems. Don't judge their mis-akes. Applaud their successes.

• Talk with them about your faith. et them see you nurturing your own piritual values. If possible, take hem with you to Sunday school or hurch, mass or synagogue.

• Be a part of "special times" in heir lives — the graduations, the wards programs, the recitals, the big games." If you can't be there in erson, send a little gift or card.

• Play with them. Go swimming, lay card games, go to ball games. each them to dive, to bowl, to cro-het. Renew your skills and help hem develop theirs. Share a riddle, a nny story, a joke. Find your own pecial ways to have fun together.

• Encourage them to read. When ey're little, read aloud to them. ive books. Help them get a library ard, and teach them how to use it.

• Praise them for their social de-elopment. As they learn to get along ith family and friends, help them nderstand that good table manners nd good personal grooming are im-portant. Compliment them on a nice airstyle or a special courtesy.

• Love them — and let them know ou do. Tell them with your actions. nd tell them often with words.

GRANDPARENTS DAY IS SEPT. 13

The 13th annual observance of National Grandparents Day is scheduled for Sunday, Sept. 13.

President Jimmy Carter signed a congressional proclamation in 1978 setting aside the first Sunday after Labor Day as a time for honoring grandparents. The observance was suggested by Marian McQuade of Oak Hill, W.Va. as an appropriate way to salute grandparents and the role they play in guiding younger generations.

Mrs. McQuade, who began campaigning for the observance in 1973, is the mother of 15 children and has 38 grandchildren.

KEEP THOSE CARDS AND LETTERS COMING

If you've been reading the magazine over the past several months, you know that we have made some changes in an effort to make the publication more appealing and useful to our readers.

That process will continue for some time, as we get more comfortable with our new design format and the desktop publishing system we now use to produce the pages before they go to the printer.

We are putting more emphasis on timely, in-depth articles on subjects of broad interest. To open up more space for them, we're no longer using material that was rated low in reader interest when we did two readership studies in 1991. We're also re-visiting some regular features to see how we might make them more interesting.

The Mailbox column drew fairly high marks, but we believe it can become an even livelier forum for reader comment. As a result, we will be encouraging readers to write letters especially for the column and we are establishing guidelines to help you get your letter into print.

Here are the guidelines: Letters must be brief, preferably under 300 words. They must be to the point and address only one subject. Subject matter should be confined to issues rather than personalities. References to an individual are not acceptable if they question his/her integrity, motives or character. The law of libel applies to any letter printed. All letters are subject to editing for clarity and length. Letters must be signed and include the writer's full name, address and telephone number. We prefer typewritten, double-spaced letters, but we will accept handwritten letters as long as they are legible. We assume no obligation to print or answer the letters submitted to the column.

With these rules in place, we welcome your letters to Mailbox.

We also welcome your letters when they're not intended for publication. They help us stay in touch with what you're thinking, what you're concerned about — and what you like and dislike about the magazine. This kind of feedback can help us do a better job. Please don't feel reticent about writing because you're afraid the letter could be published. Just label your letter, "Not For Publication," and we will not consider it for Mailbox.

We will endeavor to respond to letters in either category when they raise questions about policies and activities of the state's electric co-ops and their statewide organization. We'll look forward to hearing from you.

MAILBOX

COMMENTS ON PATTERNS COLUMN, TV SIGNALS AND MULE BREEDERS

WHERE IS PATTERNS COLUMN?

I love to look through and read *Carolina Country*, especially recipes and patterns, but the patterns must have been dropped. Why?

Annie Lou Phillips
Route 1, Rockingham

The Pins and Needles column last appeared in the March issue. We decided to drop it after reviewing the results of a recent survey that asked readers to indicate which Carolina Country *features they find most interesting. The patterns column was near the bottom of the list.*

KEEP FREE TV WAVES

With the availability of satellite dishes, poor and culturally deprived rural folks could suddenly receive a wealth of information. Television is not very enlightening, but now rural people can choose — whereas before they had nothing to choose from…

Rural people in the United States have been receiving numerous channels by satellite dish for many years now, without paying, so the television companies have been making money. Their ads go far and wide. Now the companies have arranged to scramble broadcasting so they can make more money. This is incredibly short-sighted because we have such a fine opportunity to influence and elevate the thinking of the world's people, when the TV waves are free. . . . Our opportunity to influence the world for good will not last forever. It may very well have been the free reception of television via satellite that brought about changes in the Soviet Union.

Your article in the March issue makes me wonder if the co-op association is really interested in the concerns of rural North Carolinians. We expect more than that, and we need vision and real leadership in the matter of satellite television.

R. Bradshaw Myer
West Jefferso

Our article was written to alert our readers about: 1) scam artists who, for the right price, will "fix" receivers to get otherwise scrambled TV signals, making the consumer an unwitting video pirate, and 2) satellite TV programmers' plans to adopt a new scrambling system that will require installation of new descrambler devices before the end of the year. Although some electric co-ops offer satellite TV services and sell descrambblers, the association has been in no position to influence the TV programming industry's decisions affecting scrambling.

LOOKING FOR MULE BREEDERS

I have a request that may seem odd, but perhaps your readers can help me. Do you know of any breeders of mules in the New Bern area? If you can help or know where I can obtain information abou this, please write to me.

Bill Crowe
795 Broad Creek Roa
New Bern, N.C. 28560-715

Want to write to Mailbox? We welcome your letters commenting on issues of general interest, and we have established a few guidelines to help you get your "two-cents' worth" into print. See Journal item, page 45.

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If I am delighted with my 20-Pc. Kitchen Towel Set at the end of my 30-day Free Trial, I agree to pay the cash price of $20.00 plus shipping and handling (total cash price of $26.97) in 3 monthly payments of $8.99 each. Sales or use tax will be added where applicable. I understand that I may return the Set at my expense if I am not completely satisfied at the end of my 30-day Free Trial. The Free Gifts are mine to keep. This order is subject to approval of my credit by Fingerhut. Offer good in USA only, including APO/FPO.

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